Cosmetic Product Safety Report

MO3863 WIPES PACKED IN POUCH

This safety assessment relates to the formulation described below. If the information below is incorrect, please amend and resubmit for reassessment.

Mid Ocean Brands B.V.

7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Formulation Ref: N/A

Buyer/Final Retailer: N/A

Manufacturer: N/A

PRODUCT FORMULATION

The chemical names shown below refer to the raw materials used to formulate this product. The identity of the raw materials is not necessarily based on the International Nomenclature of Cosmetic Ingredients (INCI) and does not represent the INCI listing that must be shown on the product label and is for assessment purposes only. An outline INCI label can be prepared on request.

Chemical Name	Conc	% Max Active	Max Active in Product	CAS No	Einecs No
AQUA (WATER)	98.82	100	98.82	7732-18-5	231-791-2
2-BROMO-2-NITROPROPANE-1,3-DIOL	0.1	100	.1	52-51-7	200-143-0
POLYSORBATE 20	0.3	100	.3	9005-64-5	500-018-3
DISODIUM EDTA	0.05	100	.05	139-33-3/ 6381-92-6	205-358-3
BENZALKONIUM CHLORIDE	0.1	100	.1	63449-41-2, 8001-54-5 / 68391-01-5 / 68424-85-1 / 85409-22-9 / 61789-71-7	264-151-6 / 269-919-4 / 270-325-2 / 287-089-1
PARFUME JY8892	0.03	100	.03	MIXTURE	MIXTURE
GLYCERIN	0.5	100	.5	56-81-5 / 8013-25-0	200-289-5 / --
POLYAMINOPROPYL BIGUANIDE HYDROCHLORIDE	0.1	100	.1	32289-58-0/27083-27-8	POLYMER

MSDS/SDS, CoA/TDS and toxicity profile (where applicable) were listed in the Appendix 1

LABELLED WARNINGS & INSTRUCTIONS OF USE

CONSUMER EXPOSURE

Product Class: Hand wipe
IFRA Product type: Hand Sanitizers of all types
IFRA Category: Category 5
Targeted Population:Adult Female & Adult Males Mean value 60kg

Amount per application/g:	1.20	Number of applications per day:	Six times per day
Skin Surface Area of Application/cm^2:	840	Physical form:	Liquid
Total Amount applied per day/g:	3.50	Part of body exposed to undiluted product:	Hands
Estimated Daily Exposure mg/kg/day:	-		

Amount Per Unit Area of Skin per day mg/cm^2/day: 4.20

Retention factor:	1.00
Exposure Time Neat:	720 minutes
Exposure Time Dilute:	Not Applicable
Exposure time Solvent Inhalation:	Not Applicable
Exposure time Aerosol Inhalation:	Not Applicable

MICROBIOLOGICAL QUALITY

To comply with "Guidelines on Microbiological Quality of the Finished Cosmetic Product" under SCCS's Notes of Guidance, the following limits apply to this product:

Category 2: Other cosmetic products. TVC should not exceed 1000 cfu/g or ml, Yeast and Mold should not exceed 100 cfu/g or ml in the product. Fecal Coliform, Pseudomonas aeruginosa and Staphylococcus aureus must not be detectable in the cosmetic product

Microbiological specifications for the product have been supplied and meet the requirements specified therein for this type of product.

Microbiological specification test report or data was listed in the Appendix 2-1

Preservative challenge test results for this product have been supplied and meet the industry requirements specified therein for this type of product.

Preservative challenge test report or data was provided and listed in the Appendix 2-2

STABILITY OF COSMETIC PRODUCT

It is assumed that the responsible person has selected all pertinent criteria required to evaluate the stability of this cosmetic product during reasonable foreseeable conditions of storage. The stability report provided by the supplier and based upon the conclusions made therein, this cosmetic product appears to be stable under reasonably foreseeable storage conditions.

Stability Test Report or Data of Cosmetic Product was listed in the Appendix 3

PACKAGING COMPATIBILITY

It is assumed that the responsible person has identified the most applicable testing required to determine the packaging stability and its interaction with the cosmetic product contained within it. Taking into consideration the information supplied to the assessor, there appears to be no immediate health concern due to the characteristics of packaging materials in direct contact with the final product.

Package Compatibility Test Report and/or data was listed in the Appendix 4

SERIOUS / UNDESIRABLE EFFECTS

The supplier has confirmed that no undesirable effects or serious undesirable effects of this cosmetic product have been reported or, where relevant, cosmetic products with a similar formulation.

Serious/ Undesirable Effects of Cosmetic Product Declaration was listed in Appendix 5

FRAGRANCE COMPOSITIONS

The supplier has provided an IFRA certificate or similar which confirms that the fragrance has been safety assessed by the fragrance manufacturer and meets the requirements of the most recent amendments to the IFRA Code of Practice.

IFRA Certificate, MSDS/SDS and Allergen declaration were listed in the Appendix 6

According to Cosmetic Regulation (EC) No. 1223/2009, a complete cosmetic product safety report shall, at a minimum, contain cosmetic product safety information and cosmetic product safety assessment. The former includes raw materials and packaging material specifications, toxicological profile of substance (taking into account of purity of substance) contained in the cosmetic product and any known undesirable effects of the cosmetic product.

TOXICOLOGICAL & REGULATORY REVIEW

An aqueous formulation with mild foam-boosting surfactant, humectants, skin conditioning and preservatives impregnated for hand clean. Following the wiping, a thin film of residual product would be left on the body, resulting in significant dermal exposure. Inhalation exposure is not expected as the product is non-volatile and no significant ingestion would occur with the in use application. The product which is mostly water has low risk of irritation of the skin as the irritating ingredients are present at low levels (total concentration < 1%) and with further dilution in the formulation, the irritancy would be reduced significantly. The formulation includes ingredients that are strong ocular irritants; as used, no significant eye exposure is expected. Accidental contact may irritate the eye, showing as slight, transient redness or swelling but no lasting injury or iridial damage is predicted.
Systemic toxicity is not expected from repeated and prolonged use of the product in the short, medium or long term as demonstrated by the large margin of safety (MoS) calculated for the ingredients with MoS all above 100.

The safety of the fragrance has been evaluated by the manufacturer in accordance with IFRA standards and considered safe at concentration used in this category of cosmetic product. These values have been weighted against the mode of use and taking into consideration this information. This product is considered not to pose a sensitization risk for the majority of users. However, the possibility cannot be discounted that a small number of users may experience an allergic reaction or other idiosyncratic reaction to an ingredient in the formulation if they have been previously sensitized to the ingredient.

The raw materials used to formulate this product are all well known ingredients. They are present at typical concentrations where they are unlikely to cause irritation or allergy.

Limits of heavy metals were satisfied legal requirements and testing report was listed in the Appendix 7

No existing studies from human volunteers were provided.

If used as directed, use of this product should be uneventful.

Effects of the product as supplied on the skin

The formulation as supplied may cause slight skin irritation especially if exposure is prolonged and/or repeated. However, under normal conditions of use, the likelihood of causing skin irritancy will be very low.

Repeated exposure to the formulation as supplied is unlikely to produce allergy by skin contact.

Exposure to this product is unlikely to result in phototoxic effects.

Unlikely to cause damage to internal organs following absorption through the skin.

Effects of the product as supplied on the eye

Accidental exposure of the eye to the formulation as supplied may result in slight eye irritation.

Effects following ingestion of the product as supplied

The formulation as supplied if swallowed may cause slight, transient irritation to the mouth and upper digestive tract.

Effects of inhaling the product

Inhalation is an unlikely route of exposure

Overall Assessment Conclusion

The ingredients are legally permitted as per Cosmetic Regulation (EC) No 1223/2009 and its amendments and the safety assessment has been carried out in accordance to this regulation. They must comply with the relevant purity standards for cosmetic ingredients. It is assumed that these ingredients do not contain any undisclosed impurities/contaminants that would affect the conclusions reached. The product must be manufactured in accordance with EU Guidance on Good Manufacturing Practice.

Under normal or reasonably foreseeable conditions of use, product made to this formulation is unlikely to produce an abnormally high number of adverse reactions.

Cosmetic Regulations Product Safety Assessor

Bo Chen

Bo Chen, MSc in Pharmaceutical Science

Intertek Testing Services Shanghai Limited
2/F, Building No. 2 Shanghai Comalong Technology Service Park，889 Yi Shan Road, Shanghai, China **Date:** 19 Jul 2019

SUMMARY OF TOXICOLOGICAL INFORMATION OF SUBSTANCES

Remark: Substance toxicological summary was listed in this section and used only for MoS calculation, please refer to Toxicological Profiles of Substances for full information.

Chemical Substance: AQUA (WATER)

EU INCI NAME:AQUA

CAS: 7732-18-5 Function: Solvent

EINECS 231-791-2 Melting Point: 0

Appearance: Liquid Boiling Point: 100

Water Solubility: highly soluble

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 57.64500	No NOAEL Available	NOAEL mg/kg bw day: -
SED Child mg/kg bw/day: 207.10778	No NOAEL Available	NOAEL test method: -
SED Baby mg/kg bw/day: 586.22033	No NOAEL Available	

Toxicological Summary:

Function : Solvent. Simply water unlikely to cause irritation, allergy or harm. Used in many cosmetic products as a solvent and necessary to sustain biological life. The source of water should be known, monitored to GMP and either a deionised or high purity grade free from toxins, pollutants and bacteriological contamination should be used in cosmetic products.

Chemical Substance: 2-BROMO-2-NITROPROPANE-1,3-DIOL

EU INCI NAME:2-BROMO-2-NITROPROPANE-1,3-DIOL

CAS: 52-51-7 Function: Preservative

EINECS 200-143-0 Melting Point: 130-133

Appearance: beige crystalline solid

Cosmetic Regulatory Summary:

EU Cosmetics Status: Approved preservative

Regulatory Summary:

EU DSD/DPD Classification> R21/22-37/38-41-50

EU CLP Harmonised Classification> H302, H312, H315, H318, H335, H400

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.05833	MoS - Adult 60kg: 342.8	NOAEL mg/kg bw day: 20
SED Child mg/kg bw/day: 0.20958	MoS - Child 16.7kg: 95.4	
SED Baby mg/kg bw/day: 0.59322	MoS - Baby 5.9kg: 33.7	

Toxicological Summary:

Cosmetic Function : Preservative. A well established and widely used preservative. Will react with secondary amines to form N-nitrosamines therefore should not be used with amines including trialkanolamines. Produces minimal contact allergy and/or contact irritation in both animals and humans. Reports of definite allergic potential. CIR concludes <0.1% concentration limit; may contribute to endogenous nitrosamine formation; but should not be used under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides.
Acute oral toxicity (rat) 180 mg/kg body weight; Acute oral LD50 in dogs is 250 mg/kg, in mice is 270 mg/kg; Dermal LD50 in mice: 4,750 mg/kg and in rats: 1,600 mg/kg; no effect on reproduction, was not a teratogen, and had no embryotoxic effects. It was not a mutagen by the standard mouse dominant lethal test or by the bacterial reverse mutant system. NOAEL (rat, oral, 90d) : 20 mg/kg/day

Chemical Substance: POLYSORBATE 20

EU INCI NAME:POLYSORBATE 20

CAS: 9005-64-5 Function: Surfactant

EINECS 500-018-3

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.17500	MoS - Adult 60kg: 22857.1	NOAEL mg/kg bw day: 4000
SED Child mg/kg bw/day: 0.62874	MoS - Child 16.7kg: 6361.9	NOAEL test method: repeated toxicity (rat, oral) (CIR, 1984)
SED Baby mg/kg bw/day: 1.77966	MoS - Baby 5.9kg: 2247.6	

Toxicological Summary:

Cosmetic Function : Emulsifying / Surfactant. Hydrophilic, non-ionic surfactants used in a variety of cosmetic products. As per CIR Compendium 2009:- Polysorbate 80 was shown to be non mutagenic in the Ames and micronucleus tests. The Polysorbates were non carcinogenic in laboratory animals and of low order of oral toxicity. Clinical skin testing showed the Polysorbates to have little potential for human skin irritation or evidence of skin sensitization or phototoxicity. The FDA has approved Polysorbates 20 and 80 at up to 1.0 percent in ophthalmic preparations and Polysorbate 60 at up to 4.5 percent in foods. Polysorbates were safe for use in cosmetics at the levels in current use (Polysorbate-20 >50%, Polysorbate-40 is up to 10%, Polysorbate-60 is up to 25%) with the caveat that they should not be used on damaged skin.Overall the polysorbates have low potential to irritate the skin or eyes or cause allergy or skin sensitisation by skin contact. On the basis of the available data, the CIR Panel concludes that Polysorbates-20, -21, -40, -60, -61, -65, -80, -81, and -85 are safe as cosmetic ingredients in the concentration of present use (5-10%). NOAEL 1000mg/kg bw/day (Evaluation Report of Food Additives Polysorbates Japan Food safety commission June 2007.)
A NOAEL for maternal toxicity was recorded as NOAEL (rat, oral)= 500mg/kg bw/day. A NOAEL fordevelopmental/reproductive toxicity NOAEL (rat, oral) ≥ 5000 mg/kg bw/day was recorded. The lowest NOAEL of 500mg/kg bw/day was taken for MoS calculation

Chemical Substance: DISODIUM EDTA

EU INCI NAME:DISODIUM EDTA

CAS: 139-33-3/ 6381-92-6 Function: Chelating/Viscosity Controlling

EINECS 205-358-3 Melting Point: 240

Appearance: White crystals Boiling Point: >100

Water Solubility: Soluble in water. 100g/L at 20oC

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02916	MoS - Adult 60kg: 25714.2	NOAEL mg/kg bw day: 750
SED Child mg/kg bw/day: 0.10479	MoS - Child 16.7kg: 7157.1	NOAEL test method: reproductive toxicity
SED Baby mg/kg bw/day: 0.29661	MoS - Baby 5.9kg: 2528.5	

Toxicological Summary:

Functions : Chelating / Viscosity Controlling. EDTA is used as a chelating agent in cosmetic formulations. The ability of these complexes to aid penetration of certain compounds, particularly calcium based compounds, must also be taken into account when used with other chemicals that are considered safe because they are not significantly absorbed. Unlikely to add to the toxicity of rinse off products. Comprehensive evaluations of disodium EDTA have been conducted by the FDA and approved for direct addition in specified foods under prescribed levels under 21 CFR 172.135. CIR, has also evaluated the safety of disodium EDTA. Acute Toxicity: Disodium EDTA is slightly toxic to rat through oral route and the oral LD50 studies in rats was determined to be >2000 mg/kg bw. Clinical signs of toxicity included convulsions, diarrhea, ataxia, intestinal hemorrhage were exhibited. The oral, intraperitoneal and intravenous LD50 in mouse is 400, 260 and 56 mg/kg bw respectively (CIR, 2002, RTECS AH4375000). Irritation and Corrosivity:Skin : Results of in vivo studies in rabbits applied with disodium EDTA showed no irritating effects and classified as a non irritant (CIR, 2002). Eye Irritation : Result of in vivo studies in rabbits applied into the conjunctival sac with disodium EDTA showed no irritation to the eyes and classified as non irritant (CIR, 2002). Skin Sensitisation: Results of both in vivo skin sensitization test with disodium EDTA showed no evidence of sensitization potential in guinea pigs (CIR, 2002). Dermal/Percutaneous Absorption: No data available. Repeated Dose Toxicity: Results of sub chronic and chronic animal studies indicate that disodium EDTA is practically non-toxic (CIR 2002). Mutagenicity/Genotoxicity: Disodium EDTA was non genotoxic in ames assay with all the strains of Salmonella typhimurium in the presence and absence of metabolic activation system. Similarly, no chromosomal aberrations were observed in Gesonula punctifrons germinal cells. In contrast to the above results, weak increase of aberrations was seen in germinal cells of male grasshopper. Increased micronuclei were observed in in vivo bone marrow micronucleus assay in mice. However, no incidence of mutations was observed in dominant lethal assay. It is predicted that EDTA and its salts are non mutagenic nor genotoxic provided that it does not deplete the trace elements essential for the enzymes involved in DNA synthesis and normal cell function (CIR, 2002). Carcinogenicity: Carcinogenicity study was conducted in both rats and mice fed with trisodiumEDTA trihydrate. The concentration of trisodium EDTA administered was approximately 535 and 1070 mg/kg/day in mice and 375 and 750 mg/kg/day for a period of 103 weeks. Neither compound related clinical signs of toxicity nor incidence of tumors were observed in both rats and mice indicating no carcinogenic potential (NCI, 1977) . Reproductive and Developmental Toxicity: Several reproductive and developmental toxicity studies were conducted with disodium EDTA where the final conclusion is the toxicity caused by disodium EDTA may be attributed to the zinc deficiency induced by disodium EDTA rather the toxicity of the substance itself. Impaired reproduction and increased incidence of malformations indicative of both reproductive and developmental toxicities were observed in animals administered with disodium EDTA (CIR, 2002). Toxicokinetics: Disodium EDTA administered to rats through diet at a dose levels of 0.5, 1.0 and 5.0% showed 99.4, 98.2 and 97.5% in the faeces suggesting that EDTA is poorly absorbed. In another study 93% of the administered dose (95 mg) was recovered from the colon. (WHO/FAO, 1967). Photo-Induced Toxicity:No data reported. Human Data:Clinical studies with 26 human volunteers applied with 0.2g of disodium EDTA in a 4-hour patch test did not showed any irritation potential in any of the subjects (CIR, 2002). No-Observed-Adverse Effect Level (NOAEL) and Rationale: Although sub-chronic oral studies were conducted with disodium EDTA, No-Observed Adverse Effect Levels were not calculated. The NOAEL of trisodium EDTA in a two year dietary study was derived to be 500 mg/kg/day (CSTEE, 2003). One study in mice fed with trisodium EDTA exhibited decrease in body weight gain in males. And the lowest-effect level (LEL) was determined to be 1125 mg/kg/day and the no observed effect level (NOEL) was 563 mg/kg/day (CIR, 2002). Evidence for reproductive toxicity has been shown in animal studies with EDTA salts (NOAEL: 750 mg/kg bw/d); clinical studies indicate that EDTA and its salt are not absorbed into the body from dermal or oral ingestion and thus not bioavailable to exert toxicity effects. Acting as chelator, disodium EDTA is expected to be consumed in reaction during the production with minimal free form in the finished product.

Chemical Substance: BENZALKONIUM CHLORIDE

EU INCI NAME:BENZALKONIUM CHLORIDE

CAS: 63449-41-2, 8001-54-5 / 68391-01-5 / 68424-85-1 / 85409-22-9 / 61789-71-7 Function: Preservative

EINECS 264-151-6 / 269-919-4 / 270-325-2 / 287-089-1

Cosmetic Regulatory Summary:

EU Cosmetics Status: Approved preservative

Regulatory Summary:

EU DSD/DPD Classification> R21/22-34-50

EU CLP Harmonised Classification> Acute Tox. 4/Skin Corr.1B/Aquatic Acute 1.

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.05833	MoS - Adult 60kg: 342.8	NOAEL mg/kg bw day: 20
SED Child mg/kg bw/day: 0.20958	MoS - Child 16.7kg: 95.4	
SED Baby mg/kg bw/day: 0.59322	MoS - Baby 5.9kg: 33.7	

Toxicological Summary:

The material as supplied is corrosive to the skin, eyes and mucous membranes. When diluted in a product at up to 1% it is unlikely to cause irritation but it may cause sensitization by skin contact in some sensitive people on prolonged exposure. LD50 oral and dermal in rat show harmful classifications. An expert panel concluded that 0.1% free Benzalkonium chloride is safe for use as a cosmetic ingredient and up to 3% in rinse-off hair (head) care products. This product is supplied as a 50% solution. Used as an antiseptic, fungicide, bactericide, disinfectant. Listed in the Biocides Directive. Benzalkonium Chloride with the CAS No. 68424-85-1 is approved for all product-types **with the exception of product-types 6** (In-can preservatives) from 25/10/2009, **7** (Film preservatives), **9** (Fibre, leather, rubber and polymerised materials preservatives) from 9/02/2011; **13** (Metalworking-fluid preservatives) from 25/10/2009; **18** (Insecticides, acaricides and products to control other arthropods) from 3/01/2008; **19** (Repellents and attractants) from 3/01/2008; **21**(Antifouling products) from 3/01/2008 (Reference - 6/01/2011, http://ec.europa.u/environment/biocides/pdf/list_dates_product_phasing_out.pdf). Benzalkonium Chloride with the CAS No. 68424-85-1 cannot be used in product-types 5, 14, 15, 16, 17, 20, 22 - 23. However in the meantime, it can be used for the following product -types whilst they are being reviewed: Product-types 1, 2, 3, 4, 8, 10 11 12 until a decision has been made on them. Tthe Oral LD 50 795mg/kg rat, Dermal 1560 mg/kg (rat). Caustic effect on the skin and mucous membranes. Skin sensitizer on prolonged and repeated contact. Non mutagenic OECD 471 Ames test (In vitro genmutation in bacteria). EC50 96 h 0.06mg/ml. Readily biodegradable >60%. A NOAEL of 20mg/kg day (90-day dermal toxicity in rats) MRID was recorded. (DRAFT Alkyl Dimethyl Benzyl Ammonium Chloride (ADBAC) Preliminary Risk Assessment Office of Pesticide Programs Antimicrobials Division U.S. Environmental Protection Agency 1801 South Bell St. Arlington, VA 22202 Date: April 20, 2006). Dermal absorption is very low except through damaged skin (Nicola et al., 1997; Fisher & Stillman. Human fatalities can occur following an oral dose of 100 to 400 mg/kg or a parenteral dose of 5 to 15 mg/kg (Ellenhornet al., 1997). According to Arena (1964), the fatal dose of quaternary ammonium compounds was estimated to be 1 to 3 g. (Inchem).

Chemical Substance: GLYCERIN

EU INCI NAME:GLYCERIN

CAS: 56-81-5 / 8013-25-0
EINECS mixture

Function: Denaturant / Humectant / Perfuming / Solvent / Fragrance Ingredient / Hair & Skin Conditioning Agent / Oral Care Agent / Skin Protectant / Viscosity Decreasing Agent

Appearance: liquid

Melting Point: ~18^{0}C

Log Kow: 1.76

Boiling Point: 290^{0}C

Water Solubility: miscible with water

Vapour Pressure: <0.01 mm Hg @ 20

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.29166	MoS - Adult 60kg: 6857.1	NOAEL mg/kg bw day: 2000
SED Child mg/kg bw/day: 1.04790	MoS - Child 16.7kg: 1908.5	NOAEL test method: reproductive 2-generation toxicity study
SED Baby mg/kg bw/day: 2.96610	MoS - Baby 5.9kg: 674.2	

Toxicological Summary:

Function: Denaturant / Humectant / Solvent /Conditioner, Viscosity Decreasing Agent. If ingested in massive amounts it may induce osmotic effects in the gastro-intestinal tract manifesting as tremour and hyperaemia with LD50 in excess of 4000 mg/kg bw for both oral and dermal toxicity (Toxnet search - author anonymous. *Screening Information Data Set for High Production Volume Chemicals*. 2005, 178. Abstract). Repeated ingestion may produce localised GI irritation. It is a polyhydric alcohol with a minimum potential to irritate the skin and the eye. Human and animal data and the wide exposure to Glycerol indicate that it is not a skin sensitiser. Free from structural alerts, which raise concern for mutagenicity & does not induce gene mutations in bacterial strains, chromosomal effects in mammalian cells or primary DNA damage *in vitro*. Experimental data from a limited 2 year dietary study in the rat does not provide any basis for concerns in relation to carcinogenicity. No effects on fertility and reproductive performance were observed in a two generation study with glycerol administered by gavage (NOAEL 2000 mg/kg bw/day). No maternal toxicity or teratogenic effects were seen in the rat, mouse or rabbit at the highest dose levels tested in a guideline comparable teratogenicity study (NOAEL 1180 mg/kg bw/day), For inhalation exposure to aerosols, the NOAEC for local irritant effects to the upper respiratory tract is 165 mg/m3 and 662 mg/m3 for systemic effects. Canada, Hotlist March 2011; Manufacturers of oral and leave-on products containing glycerin must ensure the raw material used is within the specifications of an accepted pharma-copoeia with respect to diethylene glycol (DEG) impurities (e.g. Glycerin Official Monograph in the most current edition of the USP). As well as in cosmetics, Glycerin finds wide application in various sector of life such as pharmaceuticals, tobacco, food and drinks and many other products such as paints, resins and paper. Specific consumer exposure is through the oral and dermal routes, inhalation route may also occur following intake particularly from smoking. Consequently exposure to this substance is extensive however, it has been associated with a low hazard potential.

In the United States, it may be used as an active ingredient in OTC drug products and as a cough remedy. Typical suitable amounts for adults are 10 ml in water 4 times per day. For children 1-4 years 2.5ml diluted in water 3-4 time a day. In Canada, Cosmetic Ingredient Hotlist September 2009 states; Manufacturers of oral and leave-on products containing glycerin must ensure the raw material used is within the specifications of an accepted pharmacopoeia with respect to diethylene glycol (DEG) impurities (e.g. Glycerin Official Monograph in the most current edition of the USP).

QSAR predictions and weight of evidence have led t the conclusion that Glycerol (Glycerin) has low toxicity to aquatic organisms Toxnet search - author anonymous. *Screening Information Data Set for High Production Volume Chemicals*. 2005, 178. Abstract). . Experiments have provided the lowest LC50 for fish is a 24-h LC50 of >5000 mg/l for Carassius auratus (Goldfish) and for aquatic invertebrates, a 24h EC50 of >10000 mg/l for Daphnia magna is the lowest EC50. A calculated half-life for photo-oxidation have been obtained as approximately 7 hours without it being susceptible to hydrolysis (Data suggest that it is readily biodegradable under aerobic conditions and Fugacity modelling predicts that it partitions 100% to aquatic compartment and is not expected to bioacumulate Toxnet search - author anonymous. *Screening Information Data Set for High Production Volume Chemicals*. 2005, 178. Abstract).

Chemical Substance: POLYAMINOPROPYL BIGUANIDE HYDROCHLORIDE

EU INCI NAME:POLYAMINOPROPYL BIGUANIDE

CAS: 32289-58-0/27083-27-8
EINECS Polymer

Function: Preservative

Boiling Point: 99

Appearance: Liquid

Cosmetic Regulatory Summary:

EU Cosmetics Status: Approved preservative

Regulatory Summary:

EU DSD/DPD Classification> R22-26- R41-R43 -R48/23 - R40; Carc. cat. 3; R50/53

EU CLP Harmonised Classification> Carc. 2; H351
Acute Tox. 1; H330 / Acute Tox. 4: H302

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00011	MoS - Adult 60kg: 214285.7	NOAEL mg/kg bw day: 25
SED Child mg/kg bw/day: 0.00041	MoS - Child 16.7kg: 59642.8	NOAEL test method: 1-year oral study; dog
SED Baby mg/kg bw/day: 0.00118	MoS - Baby 5.9kg: 21071.4	

Toxicological Summary:

Permitted at up to 0.3% active in all products. It would be prudent not to use this preservative at the higher levels in products intended to sensitive users and those with skin conditions. Products containing this preservative should be carefully monitored for possible skin sensitisation reactions. Vapour or aerosol, if generated, can cause irritation of the eyes, nose and respiratory tract. As expected for a polymeric substance PHMB is not absorbed through the skin to toxicologically significant amount; the dermal absorption is approximately 0.2%. Oral LD50: >2,000 mg/kg (Rat): Dermal LD50 value: > 2,000 mg/kg (Rabbit); Inhalation LC50 value: 0.030 mg/l (4-hr; rats). Skin Irritation: Not a skin irritant; no evidence of irritation observed in 3 standard studies. Eye Irritation: severely irritating to the eye; irreversible effects observed in study in rabbits. Skin Sensitization: Potential skin sensitizer based on moderate potency seen in animal tests. PHMB when tested at 1.0% in the HRIPT did not produce irritation or allergic skin reactions; prolonged repeated exposure to PHMB from 2% however caused a significant level of sensitisation. Rare contact sensitiser in humans at the usual low levels included in consumer products. Acute Toxicity: May cause skin, eye and mucous membrane irritation. May cause lethargy and diarrhoea from ingestion. Sub-chronic / Chronic Toxicity: Not known or reported to cause sub-chronic or chronic toxicity in human exposure. Repeated inhalation exposure in rats over a period of 4 weeks resulted in eye and respiratory irritation and pneumonitis. Long term feeding studies in dogs show that the liver and kidney are target organs and the effect occur only at very high doses. Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity; no effects observed in 2- and 3- generation studies. No evidence for foetotoxicity or teratogenicity was observed in a standard porenatal studies in the rat and the rabbit. Mutagenicity: Not known or reported to be mutagenic in two in vitro and in vivo studies, respectively. Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Polyamino biguanide (PHMB,) when administered to mice at very high doses, induced an increased incidence of cancer in mice. (Ref: Arch Chemicals SDS 05/10/2006).
The ECHA Committee for Risk Assessment (RAC) opinion on the proposed harmonised classification and labelling of Polyhexamethylene biguanide or Poly(hexamethylene) biguanide hydrochloride (PHMB) CAS No. 27083-27-8 or 32289-58-0 adopted on 9th September 2011 classified PHMB as carcinogenic Carc 2- H351 (Cat. 3; R40; limited evidence of carcinogenicity) on consideration of the full reports of three carcinogenicity studies (oral dose studies in mice and rat and a dermal mouse skin painting study). PHMB was found to induce local tumours (squamous cell carcinomas) in animals at high dose secondary to chronic inflammation resulting from the substance irritative properties. The observed chronic inflammation and subsequent hyper/metaplasia were dose-related and the tumour was considered to be by a threshold mode of action that may be relevant in humans. NOEL for local tumours: 150 mg/kg /d (80-week dermal application, mouse). Equivocal evidence of liduction of vascular tumour in the liver was observed in oral studies; NOAEL = 1200 ppm (equivalent to 167 mg/kg PHMB; mouse,oral).
In a repeated chronic oral toxicity study, the liver, kidney and male reproductive organ were identified as target organ of toxicity in a 12-month study; NOEL was determined to be 25 mg/kg (correspond to 100 mg/kg for a 90-day study).
Repeated dose toxicity; dermal NOEL = <60 mg/kg PHMB/day (21-day rat study)
Repeated dose toxicity; inhalation: Severe irritation of the respiratory tract from 0.25 ug/L and above in rats evidenced as cell proliferation, pneumonitis and bronchitis with mortality seen at the highest dose after single exposure and delayed effects on repeated exposures at lower doses.
Specific concentration limits, M-factor of 10 has been set by RAC for both the acute and chronic toxicity classification and labelling.
Reference:
Committee for Risk Assessment (RAC) Opinion proposing harmonised classification and labelling at Community level of Polyhexamethylene biguanide or Poly(hexamethylene)biguanide hydrochloride (PHMB). European Chemicals Agency; ECHA/RAC/CLH-O-0000001973-68-01/F. Adopted 9 September 2011

Note: In the absence of NOAEL data, the Margin of Safety (MoS) has not been calculated.
Unless otherwise determined and in the absence of literature or other experimental data, a Dermal Absorption (DAp) of 100% is taken as the worst case scenario.
NOAEL: No Observed Adverse Effect Level; MoS: Margin of Safety; SED Systemic Exposure Dosage
Calculation of Margin of Safety: MoS = NOAEL / SED

Reference for skin surface area, exposures and application quantities are derived from:
1. RIVM Report 320104001/2006
2. References sited in Dermal Sensitization Quantitative Risk Assessment (QRA) For Fragrance Ingredients, 2006 revision
3. Exposure factors handbook 2009 Update
4. The SCCS's Notes of Guidance for the Testing of Cosmetic Ingredients and their Safety Evaluation 10th Revision
5. Colipa Data SCCNFP/0321/02
6. McNamara et al, Food Chem. Tox; 2007, 45, 2086
7. Loretz et al, Food Chem. Tox; 2008, 46, 1516
N.B. Exposure times have been taken from RIVM Report 320104001/2006
8. Body weights taken from Exposure factors handbook 2009 Update and mean values have been used unless specified otherwise
9. ConsExpo database
10. New default values for the spray model, RIVM, March 2010

This formulation has been safety assessed by Intertek with reference to Articles 3 and 10 of Cosmetic Regulation (EC) No. 1223/2009. The safety assessment is based on the chemical specification and toxicological profile of the ingredients as supplied at the time of assessment.
The supplier to this safety assessment is advised to ask for a new safety evaluation if any change in formulation occurs, change in raw materials used, abnormally high number of adverse events are recorded, changes in recommended uses or other circumstances that may affect the safety of this product.

The REACH dossier, IUCLID Datasheet, OECD SIDS and EU RAR often include unpublished data, not otherwise available; however, it must be noted that the authorities have issued legal disclaimers for the databases. The declaimer, among other cautions, stressed that the data in the dossier, datasheet, data set or report are not necessarily comprehensive, complete, accurate or up-to-date. Use of the data may also be subject to copyright laws. Therefore, data from the such resource are used as supporting information.

Appendixes of Cosmetic Product Safety Report

For

MO3863 WIPES PACKED IN POUCH

The testing report, declaration letter, SDS/MSDS, TDS, CoA, IFRA Certificate and other supportive document listed in this appendix were provided from client and delivered to risk assessor to conduct the CPSR, it is supplier' s responsibility to make sure the accuracy of the documents.

Appendix 1- Toxicological Profiles of Substances

1. *Toxicity summary*
2. *MSDS/SDS*
3. *TDS/CoA*

Appendix 2- Microbiological Quality Test Report of Cosmetic Product

1. *Microbiological specification test report or data*
2. *Preservative challenge test report or data*

Appendix 3- Stability Test Report or Data of Cosmetic Product

Appendix 4- Packaging Compatibility Test Report and/or data

1. *Container data*
2. *Outer Packaging material*

Appendix 5- Serious/ Undesirable Effects of Cosmetic Product Declaration or Report

Appendix 6- Fragrance

1. *IFRA Certificate*
2. *MSDS/SDS*
3. *Allergen declaration*

Appendix 7- Heavy Metal Test Report of Cosmetic Product

Appendix 8- Human Volunteers Studies

1. *Human volunteers study for the cosmetic product*
2. *Human volunteers study for raw material*

Appendix 9- Assessor's credentials

Appendix 1- Toxicological Profiles of Substances

1. Toxicity summary

Substance toxicological summary was listed in this report and detailed data are stored in Intertek owned in house database, could provide on specific request.

2. MSDS/SDS

See below report(s) if available

3. TDS/CoA

See below report(s) if available

Benzalkonium Chloride 十二烷基二甲基苄基氯化铵

MSDS

Manufacturer: hangzhou long spirit chemical co., LTD

Address, yuhang district, hangzhou city, zhejiang province star star bridge street street number 19

1. Product name: algae fungicidal 1227
2. Product type: a kind of cationic surfactant
3. Outside view: colorless transparent sticky liquid
4. Usage:

（1）Anion material in wastewater treatment is used for condensing water.

（2）Used as a corrosion inhibitor in industrial circulating cooling water, algae fungicidal, scale and sticky mud stripping agent.

（3）As antiseptic fungicide for fracturing fluid in the oil industry.

（4）Used for acrylic leveling agent, fabric softener and antistatic agent.

（5）Often used for cleaning wounds, medical equipment, transportation, food factory equipment, swimming equipment, public facilities, agriculture, animal husbandry and other aspects of the sterilization.

5. Product performance:

（1）Product is a colorless, transparent sticky liquid. Has the aroma and bitter almond taste.

（2）Aqueous solution is weakly alkaline reaction, good foam and chemical stability.

6. Physical properties:

Status: colorless transparent sticky liquid, fragrant smell and taste bitter almond
Colour and lustre aZan (H) : 500 or less
The critical pressure: nonsense
The heat of combustion: nonsense
PH (1 ％ aqueous solution) : 6.0 — 8.0
Flash: nonsense
The ignition temperature: nonsense
The upper and lower explosion: nonsense

7. Quality index

This product conforms to the requirements of the HB2231, detailed in the following table:

Outside view	Colorless transparent sticky liquid
Active matter content (%) or	40.0

greater	
Ammonium salt content or less	2.5
The impurity content % or less	0.5
PH	6.0-8.0

8. Usage and dosage:

（1）This product can be directly dosing, can also be diluted measuring dosing.

（2）Used for algae fungicidal, use with other drugs, synergistic effect.

（3）Commonly used alone dose of 100 mg/L; The specific circumstances, as appropriate, increase or decrease

9. Health risk

Skin: if accidentally splashed the product on the skin, rinse off with clear water immediately.

Eyes: if accidentally splashed the product into eye, rinse, no less than 15 minutes. When necessary, must call to medical staff.

Food: with water gargle, forbids patients eating . Go to a doctor.

10. Safety risk:

（1）This product has no corrosive, harmless to human body, if splashed can be rinsed clean with water, but anyone take by accident should be sent to hospital immediately .

（2）This product is good of non-dangerous, non-toxic, no risk of explosion and combustion.

11. Storage: store in a cool, ventilated warehouse, forbidden mixed reserve with toxic substances.

12. Packing: packed in clean polyethylene plastic bucket.

Chemical material safety specifications

1.

Chemical name in Chinese	Algae fungicidal 1227		
Company name	Hangzhou spirit long chemical co., LTD		
Telephone	0571-85613912	Fax	0571-89189679

E-mail	Zlin888888@163.com	Web site	www.0571chem.com
Enterprise emergency phone	13754315696	Address	yuhang district, hangzhou city, zhejiang province star star bridge street street number 19

2. Composition

☐Pure product	■Mixed product

3. Harm state

Harm way: eating

Health hazard: cause eye infections

Environmental hazards: polluting water and surface water

Combustion hazard: no

4. Emergency treatments

Skin contact: remove contaminated clothes and rinse with plenty of liquid water

Eye contact: filed eyelid, irrigate with flowing water or normal saline, go to hospital for treatment.

Eating: drink enough water, vomiting, go to hospital for treatment.

5. Leakage emergency processing

Emergency treatments: isolate leakage pollution area, restrict movement

To construct cofferdam to dig a hole or asylum, pump to tank lorry or dedicated collector, recycling or shipped to the disposal of waste places.

6. Operation processing and storage

Operating processing: the product has no corrosive, harmless to human body, if splashed can be rinsed clean with water.

Storage: store in a cool, ventilated warehouse, forbidden mixed reserve with toxic substances.

7. exposure controls/personal protection

Eye protection: wear chemical safety goggles

Hand protection: wear rubber gloves

Body protection: wear working cloth

Other protection: no smoking, eating and drinking water at work site. After work, shower and change clothes

8. Scrap processing

Scrap processing method: refer to the national and local relevant laws and regulations before disposal. Disposed by the safe landfill method

Material Safety Data Sheet

Product: Bronopol preservative

01.Identification of the substance/preparation and of the company

Trade name: Bronopol preservative
Company: kunshan city shuangyou dailychemical co.,LTD
Telephone: 86-512-57790204,57476175
Telefax: 86-512-57476182
Emergency Phone:86-512-57790204
Address:Luqian Road,Qiandeng Town,Kunshan City,Jiangsu(215341),China

02.Composition/Information on ingredients

Dangerous substance: 2-Bromo-2-nitropropane-1,3-diol
CAS NO: 52-51-7
Range: 98%
Symbol/R-phr:

03.Hazards identification

. **Inhalation:** Unknown
Ingestion: LD_{50} ≥5000 mg/kg
Eye contact: non-irrating to eye
Skin contact: non-irrating to skin

04.First aid measures

First aid measures/general information:
not applicable
First aid measures/inhalation:
Ensure supply of fresh air.
In the event of symptoms refer for medical treatment.

First aid measures/skin contact
In case of contact with skin wash off immediately with soap and water.

First aid measures/eye contact
In case of contact with eyes rinse thoroughly with plenty of water .

First aid measures/ingestion

Rinse out mouth and give plenty of water to drink.

Advice to docter/treatment

Treat symptomatically

05.Fire-fighting measures

Suitable extinguishing media

Water spray jet

Carbon dioxide

Dry powder

Foam

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself,combustion products

Risk of formation of toxic pyrolysis products

Special protective equipment for firefighters

Use breathing apparatus.

Additional informations

Cool containers at risk with water spray jet.

06.Accidental release measures

Personal precautions

Ensure adequate ventilation.

Keep away sources of ignition.

Enviromental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up with absorbent material (e.g.sand).

Dispose of absorbed material in accordance with the regulations.

07Handling and storage

07.01.01Advice on safe bandling

Avoid formation of aerosols.
Use only in well-ventilated areas.
Use solvent reistant equipment.

07.01.02.Advice on protection against fire and explosion
Take precautionary measures against static discharges>
Keep away from sources of ignition.

07.02.02 Advice on stoage compatibility
Keep container in a well-ventilated place
Keep container tightly closed
Protect from heat/overheating

07.02.03. Further information on storage conditions
none

08. Exposure controls/personal protection

08.01. Respiratory protection
Breathing apparatus in event of aerosol or mist formation.
Short term: filter apparatus, combination filter A_pl

08.02. Hand protection
Gloves(solcent resistant)

08.03. Eye peotection
Protective goggles

08.04. Skin peotection
not applicable

08.05.01.General protective measures
Do not inhale gases/vapors/aerosls
Avoid contact with eyes and skin.

08.03.05.02.Hygiene measures
Do not smoke when working.
Wash hands before breaks and after work.
Use barrier skin cream.

09.Physical and chemical properties

Form crystalline powder

Colour	white
PH-value	4-7
Boiling point	312℃
Flash point	160℃
Flammability	----
Self-ignition temperature	----
Lower explosion limit	---
Upper explosion limit	----
Combustible properties	no
Vapour pressure,20℃	---
Solubility in water	soluble
Partition coefficient:n-octanol/water	---
Viscosity	----

10.Stability and reactivity

Hazardous reactions

No hazardous reactions known.

Hazardous decomposition products

No hazardous decomposition products known.

11.Toxicological information

	Dimension	Species	Value
Acute oral toxicity	LD_{50}	rat	⩾5000mg/kg
Acute dermal toxicity	LD_{50}	rabbit	---
Acute inhalation toxicity	LD_{50}	rat	---
Irritant effect on skin			
Irritant effect on eye			
Sensitization			
Subacute toxicity			
Chronic toxicity			
Subchronic toxicity			
Mutagenicity			
Reproduction toxicity			
Carcinogenicity			

Experiences made in practice

No

General remarks
Not applicable

12.Ecological information

Physico chemical eliminability
Biological degradability
Biological eliminability
Degradability according to law of wash and cleansing agent(WRMG)
Not applicable

Behavior in environment compartments
Fish toxicity
Daphnia toxicity
Algae toxicity
Bacteria toxicity
Behavior in sewage plant
Not applicable

Chemical oxygen demand(COD)
Biochemical oxygen demand(BOD)
AOX-advice
No

Contains following heavy metals and compounds of 76/464/EWG
No

General information
Ecological data are not available

13.disposal considerations

disposal/product
for recycling consult manufacturer
dispose as of hazardous waste.

Disposal/contaminated packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14.Transport information

Land transport ADR/RID
Class/Division/Group: no dangerous good

UN-No.:
Description

Class: no dangerous good

Air transport/ICAO/IATA-DGR
Class: no dangerous good

15.Regulatory information

labeling
does not require a hazard warning label,but the normal safety precautions for handling chemicals must be observed.

16.Other informations

Company: kunshan city shuangyou dailychemical co.,LTD
Company: kunshan city shuangyou dailychemical co.,LTD
Telephone: 86-512-57790204,57476175
Telefax: 86-512-57476182
Emergency Phone:86-512-57790204
Address:Luqian Road,Qiandeng Town,Kunshan City,Jiangsu(215341),China

Material Safety Data Sheet

Glycerin MSDS

Section 1: Chemical Product and Company Identification

Catalog Codes: SLG1171, SLG1894, SLG1111, SLG1615

CAS#: 56-81-5

RTECS: MA8050000

TSCA: TSCA 8(b) inventory: Glycerin

CI#: Not available.

Synonym: 1,2,3-Propanetriol; Glycerol

Chemical Name: Glycerin

Chemical Formula: C3H5(OH)3

Composition:

Section 2: Composition and Information on Ingredients

Name	CAS #	% by Weight
Glycerin	56-81-5	100

Toxicological Data on Ingredients: Glycerin: ORAL (LD50): Acute: 12600 mg/kg [Rat]. 4090 mg/kg [Mouse]. DERMAL
(LD50): Acute: 10000 mg/kg [Rabbit]. MIST(LC50): Acute: >570 mg/m 1 hours [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys.
Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at l east 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact:
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

Serious Skin Contact: Not available.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation: Not available.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 370°C (698°F)

Flash Points: CLOSED CUP: 160°C (320°F).
OPEN CUP: 177°C (350.6°F)

Flammable Limits: LOWER: 0.9%

Products of Combustion: These products are carbon oxides (CO, CO2), irritating and toxic fumes.

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks, of heat, of oxidizing materials. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:
Glycerin is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium
permanganate and may explode on contact with these compounds.
Explosive glyceryl nitrate is formed from a mixture of glycerin and nitric and sulfuric acids. Perchloric acid , lead oxide + glycerin form perchloric esters which may be explosive.
Glycerin and chlorine may explode if heated and confined

Small Spill:

Section 6: Accidental Release Measures

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use
water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate

all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Precautions:

Section 7: Handling and Storage

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical
advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

Engineering Controls:

Section 8: Exposure Controls/Personal Protection

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the
work-station location.

Personal Protection:
Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be
used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist
BEFORE handling this product.

Exposure Limits:
TWA: 10 (mg/m3) from ACGIH (TLV) [United States] [1999] Inhalation Total. TWA: 15 (mg/m3) from OSHA (PEL) [United States] Inhalation Total.
TWA: 10 STEL: 20 (mg/m3) [Canada]
TWA: 5 (mg/m3) from OSHA (PEL) [United States] Inhalation Respirable.Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Viscous (Syrupy) liquid.)
Odor: Mild

Taste: Sweet.

Molecular Weight: 92.09 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available. Boiling Point: 290°C (554°F)

Melting Point: 19°C (66.2°F)

Critical Temperature: Not available.

Specific Gravity: 1.2636 (Water = 1)

Vapor Pressure: 0 kPa (@ 20°C)

Vapor Density: 3.17 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: The product is more soluble in water; log(oil/water) = -1.8

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, acetone.

Solubility:
Miscible in cold water, hot water and alcohol. Partially soluble in acetone.
Very slightly soluble in diethyl ether (ethyl ether). Limited solubility in ethyl acetate.
Insoluble in carbon tetrachloride, benzene, chloroform, petroleum ethers, and oils

Stability: The product is stable.

Section 10: Stability and Reactivity Data

Instability Temperature: Not available.

Conditions of Instability: Avoid contact with incompatible materials, excess heat and ignition, sources, moisture.

Incompatibility with various substances: Highly reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Hygroscopic.
Glycerin is incompatible with strong oxidizers such as chromium trioxide, potassium chlorate, or potassium permanganate.
Glycerin may react violently with acetic anhydride, aniline and nitrobenzene, chromic oxide, lead oxide and fluorine,
phosphorous triiodide, ethylene oxide and heat, silver perchlorate, sodium peroxide, sodium

hydride.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 4090 mg/kg [Mouse].
Acute dermal toxicity (LD50): 10000 mg/kg [Rabbit].
Acute toxicity of the mist (LC50): >570 mg/m3 1 hours [Rat].

Chronic Effects on Humans: May cause damage to the following organs: kidneys.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals:
TDL (rat) - Route: Oral; Dose: 100 mg/kg 1 day prior to mating. TDL (human) - Route: Oral; Dose: 1428 mg/kg

Special Remarks on Chronic Effects on Humans:
Glycerin is transferred across the plancenta in small amounts. May cause adverse reproductive effects based on animal data (Paternal Effects (Rat): Spermatogenesis (including genetic material, sperm morphology, motility, and count),
Testes, epididymis, sperm duct). May affect genetic material.

Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects:
Low hazard for normal industrial handling or normal workplace conditions. Skin: May cause skin irritation. May be absorbed through skin
Eyes: May cause eye irritation with stinging, redness, burning sensation, and tearing, but no eye injury.
Ingestion: Low hazard. Low toxicity except with very large doses. When large doses are ingested, it can cause gastrointestinal tract irritation with thirst (dehydration), nausea or vomiting diarrhea. It may also affect behavior/central nervous system/nervous system (central nervous system depression, general anesthetic, headache, dizziness, confusion, insomnia, toxic psychosis, muscle weakness, paralysisconvulsions), urinary system/kidneys(renal failure, hemoglobinuria), cardiovascular system (cardiac arrhythmias), liver. It may also cause elevated blood sugar.
Inhalation: Due to low vapor pressure, inhalation of the vapors at room temperature is unlikely. Inhalation of mist may cause respiratory tract irritation.
Chronic Potential Health Effects:
Ingestion: Prolonged or repeated ingestion may affect the blood(hemolysis, changes in white blood cell count), endocrine system (changes in adrenal weight), respiratory system, and may cause kidney injury.

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 58.5 ppm 96 hours [Trout].

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Waste Disposal:

Section 13: Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Federal and State Regulations:

Section 15: Other Regulatory Information

Illinois toxic substances disclosure to employee act: Glycerin Rhode Island RTK hazardous substances: Glycerin Pennsylvania RTK: Glycerin
Minnesota: Glycerin
Massachusetts RTK: Glycerin
Tennessee - Hazardous Right to Know: Glycerin
TSCA 8(b) inventory: Glycerin

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): Not available

S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.): Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: g

National Fire Protection Association (U.S.A.): Health: 1

Flammability: 1

Reactivity: 0

Specific hazard: Protective Equipment: Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

References: Not available.

Section 16: Other Information

Other Special Considerations: Not available.

Created: 10/10/2005 08:38 PM

Last Updated: 10/10/2005 08:38 PM

Material Safety Data Sheet

Product: kasong Preservative

01.Identification of the substance/preparation and of the company

Trade name: kasong Preservative
Company: kunshan city shuangyou dailychemical co.,LTD
Telephone: 86-512-57790204,57476175
Telefax: 86-512-57476182
Emergency Phone:86-512-57790204
Address:Luqian Road,Qiandeng Town,Kunshan City,Jiangsu(215341),China

02.Composition/Information on ingredients

Dangerous substance:	Methylchloroisothiazolinone	Methylisothiazolinone
CAS No.:	26172-55-4	2682-20-4
Range:	1.15%	0.35%
Symbol/R-phr:		

03.Hazards identification

Inhalation: Unknown
Ingestion: LD_{50} ≥3000 mg/kg
Eye contact(8% water solution)**:** non-irrating to eye
Skin contact(8% water solution)**:** non-irrating to skin

04.First aid measures

First aid measures/general information:
not applicable
First aid measures/inhalation:
Ensure supply of fresh air.
In the event of symptoms refer for medical treatment.

First aid measures/skin contact
In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

First aid measures/eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

First aid measures/ingestion

Rinse out mouth and give plenty of water to drink.

Seek medical advice immediately.

Advice to docter/symptoms

Advice to docter/hazards

Advice to docter/treatment

Treat symptomatically

05.Fire-fighting measures

Suitable extinguishing media

Water spray jet

Carbon dioxide

Dry powder

Foam

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself,combustion products

Risk of formation of toxic pyrolysis products

Special protective equipment for firefighters

Use breathing apparatus.

Additional informations

Cool containers at risk with water spray jet.

06.Accidental release measures

Personal precautions

Ensure adequate ventilation.

Keep away sources of ignition.

Enviromental precautions
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up
Take up with absorbent material (e.g.sand).
Dispose of absorbed material in accordance with the regulations.

07Handling and storage

07.01.01Advice on safe bandling
Avoid formation of aerosols.
Use only in well-ventilated areas.
Use solvent reistant equipment.

07.01.02.Advice on protection against fire and explosion
Take precautionary measures against static discharges>
Keep away from sources of ignition.

07.02.02 Advice on stoage compatibility
not applicable

07.02.03. Further information on storage conditions.
Keep container in a well-ventilated place
Keep container tightly closed
Protect from heat/overheating

---

08. Exposure controls/personal protection

Additional advice on system design
Exposure limits

Substance:	**AS-NR.:**	**Value:**
Methylisothiazolinone	2682-20-4	0.35%
Methylchloroisothiazolinone	26172-55-4	1.15%

08.03.01. Respiratory protection
Breathing apparatus in event of aerosol or mist formation.
Short term: filter apparatus, combination filter A_pl

08.03.02. Hand protection
Gloves(solcent resistant)

08.03.03. Eye peotection
Protective goggles

08.03.03. Skin peotection
not applicable

08.03.05.01.General protective measures
Do not inhale gases/vapors/aerosls
Avoid contact with eyes and skin.

08.03.05.02.Hygiene measures
Do not smoke when working.
Wash hands before breaks and after work.
Use barrier skin cream.

09.Physical and chemical properties

Form	Liquid
Colour	colorless
Odour	almost odourless
PH-value	2-5
Melting point	-15℃
Boiling point	96℃
Flash point	100℃
Flammability	----
Self-ignition temperature	----
Lower explosion limit	---
Upper explosion limit	----
Combustible properties	no
Vapour pressure,20℃	---
Density	1.19g/ml/25℃
Solubility in water	soluble
Partition coefficient:n-octanol/water	---
Viscosity	----

10.Stability and reactivity

Hazardous reactions
No hazardous reactions known.

Hazardous decomposition products

No hazardous decomposition products known.

11.Toxicological information

	Dimension	Species	Value
Acute oral toxicity	LD_{50}	rat	≥3000 mg/kg
Acute dermal toxicity	LD_{50}	rabbit	---
Acute inhalation toxicity	LD_{50}	rat	---
Irritant effect on skin			
Irritant effect on eye			
Sensitization			
Subacute toxicity			
Chronic toxicity			
Subchronic toxicity			
Mutagenicity			
Reproduction toxicity			
Carcinogenicity			

Experiences made in practice

No

General remarks

Not applicable

12.Ecological information

Physico chemical eliminability

Biological degradability

Biological eliminability

Degradability according to law of wash and cleansing agent(WRMG)

Not applicable

Behavior in environment compartments

Fish toxicity

Daphnia toxicity

Algae toxicity

Bacteria toxicity

Behavior in sewage plant

Not applicable

Chemical oxygen demand(COD)

Biochemical oxygen demand(BOD)

AOX-advice

No

Contains following heavy metals and compounds of 76/464/EWG

No

General information

Ecological data are not available

13.disposal considerations

disposal/product

for recycling consult manufacturer

dispose as of hazardous waste.

Disposal/contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14.Transport information

Land transport ADR/RID

Class/Division/Group: no dangerous good

UN-No.:

Description

Inland waterways transport/remarks

M**arine transport/IMDG-Code**

Class: no dangerous good

UN-Nr.:

Packing group

EmS :

MFAG:

Marine pollutant:

Proper shipping name

Air transport/ICAO/IATA-DGR
Class: no dangerous good
UN-/ID-Nr.:
Packing group
Proper shipping name

15.Regulatory information

labeling
does not require a hazard warning label,but the normal safety precautions for handling chemicals must be observed.

Hazard symbols

Contains:

Rphrases

Sphrases

Special labeling for certain preparations

15.02.National Regulations

16.Other informations

Company: kunshan city shuangyou dailychemical co.,LTD
Telephone: 86-512-57790204,57476175
Telefax: 86-512-57476182
Emergency Phone:86-512-57790204
Address:Luqian Road,Qiandeng Town,Kunshan City,Jiangsu(215341),China

SHAANXI DASHENG CHEMICAL TECH CO., LTD

9F of Jiezuo Square, No.2 South Fenghui Rd., Hi-tech Industrial Development Zone, Xi'an, China
TEL: +86-29-88193550，88193551，88193552 FAX: +86-29-88193353
E-mail: dash@hi2000.com Website: www.dashengchemical.com

Material Safety Data Sheet

Polyhexamethylene Biguanide Hydrochloride(PHMB) MSDS

1. Chemical Product and Company Identification

Product Name: Polyhexamethylene Biguanide Hydrochloride(PHMB)

Manufacturer/Supplier:

Shaanxi Dasheng Chemical Tech Co., Ltd

9F of Jiezuo Square, No.2 South Fenghui Rd., Hi-tech Industrial Development Zone, Xi'an, China

E-mail: dash@hi2000.com

Telephone number: 0086-29-88193550,88193551,88193552

Fax number: 0086-29-88193353

2. Composition/Date on component

Chemical characterization:

Description: (CAS#)

CAS#	Chemical Name	Percent
27083-27-8	Polyhexamethylene Biguanide Hydrochloride	20%
7732-18-5	Water	80%

3. Hazard identification

Main Hazards: Not classified as hazardous.

Routes of Entry: Eye contact

Carcinogenic Status: Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs: None.

Health Effects – Eyes: Contact may cause very slight irritation.

Health Effects – Skin: This product is non-irritating to the skin. (see section 11)

Health Effects – Ingestion: Ingestion is not a possible route of exposure.

Health Effects – Inhalation: Inhalation is not a possible route of exposure.

4. First aid measures

Eyes: For incidental contact, flush eyes with plenty of water for 1-2 minutes.

Skin: Not applicable. (see section 11)

Ingestion: Not applicable.

Inhalation: Not applicable.

Advice to Physicians: Treat symptomatically.

5. Fire fighting measure

Extinguishing Media: Select extinguishing agent appropriate to other materials involved.

Unusual Fire and Explosion Hazards: None known.

Protective Equipment for Fire-Fighting: Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

Gauze dressing contaminated with blood or bodily fluids should be "red bagged". No specific measures necessary.

Additional information:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

7. Handling and storage

Handling

Information for safe handling:

Keep container tightly closed.

Store in cool, dry place in tightly closed containers.

No special precautions are necessary if used correctly.

Information about protection against explosions and fires:

No special measures required.

Storage

Requirements to be met by storeroom and receptacles: No special requirements

Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

8. Exposure controls and personal protection

Occupational Exposure Standards

Polyhexamethylene Biguanide: None assigned.

Water: None assigned.

Engineering Control Measures: No specific measures necessary.

Respiratory Protection: No specific measures necessary.

Hand Protection: No specific measures necessary.

Eye Protection: No specific measures necessary.

Body Protection: Normal work wear.

9. Physical and chemical properties

Physical State: Woven cotton cloth saturated with liquid

Color: Colorless - Pale Yellow

Odor: Odorless

pH: 4.5-6.5 at 1% w/w in water.

Specific Gravity: 1.045~1.055

Melting Point (°C/F): No data.

Flash Point (PMCC) (°C/F): Not Flammable

Explosion Limits (%): No data.

Vapor Pressure: No data.

Density: No data.

Solubility in Water: Not applicable.

Vapor Density (Air = 1): No data.

Viscosity (cSt): No data.

10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: None known.

11. Toxicological information

Acute toxicity: Low order of acute toxicity. No adverse effects were observed in human studies using intact and abraded skin. PHMB is a methemoglobinemia former. No adverse effects are expected at the c**oncentrations found in this product.**

Chronic Toxicity/Carcinogenicity: This product is not expected to cause long term adverse health effects. PHMB induced an increase in cancer in mice when administered at very high doses.

Under the conditions of anticipated use of this product, PHMB does not pose a risk to man.

Genotoxicity: This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity: This product is not expected to cause reproductive or developmental health effects.

12. Ecological information

Mobility: No relevant studies identified.

Persistence/Degradability: No relevant studies identified.

Bio-accumulation: No relevant studies identified.

Ecotoxicity: This product in its current form is not harmful to aquatic organisms.

13. Disposal considerations

Dispose of in accordance with all applicable local and national regulations.

14. Transport information

Not a hazardous material for transportation.

15. Regulations

MA Right To Know Law: All components have been checked for inclusion on the Massachusetts Substance List (MSL).

Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.

PA Right To Know Law: This product does not contain any chemicals on the Pennsylvania Hazardous Substance List.

NJ Right To Know Law: This product does not contain any chemicals on the New Jersey Workplace Hazardous Substance List.

California Proposition 65: This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS): This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304: This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization: This product does not meet any of the SARA Title III Section 311/312 categorizations.

SARA Title III Sect. 313: This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. Other Information

NFPA Ratings

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk

S: Safety

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

BOD: Biological Oxygen Demand

KoC: Soil Organic Carbon Partition Coefficient

T-20 的技术安全说明书

MSDS

1. PRODUCT AND COMPANY IDENTIFICATION：

COMPANY:
Hangzhou jiuling chemical Co.Ltd
No.19 Xingfa Road, Hangzhou ,linping Zhejiang, China
TELEPHONE: 86-571-89189679 FAX: 86-571-89189679

SUBSTANCE:
CHEMICAL NAME：Tween-20
CAS REGISTRY NUMBER:CAS No. 9005-65-6

2. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient and content：Polyoxyethylene （20） sorbitan monolaurata 99%

3. HAZARDS IDENTIFICATION

Categories:not ciassified

invasive route: Inhalation, skin contact and intake, etc

ADVERSE HUMAN HEALTH EFFECTS:

:The product is harmful if ingested, moderately irritating to the skin and irritating to the eyes.

Ingestion may cause irritation of the first part of the digestive tract.

Inhalation of the product in aerosol form may cause irritation of the respiratory system.

Possibility of persistent effects on the eyes.

ENVIRONMENTAL EFFECTS： The product is a threat to the environment; it is very toxic for aquatic organisms following acute exposure.

4. FIRST-AID MEASURES

SKIN CONTACT: The product may cause irritation. Remove the contaminated clothing and wash with plenty of water.
EYE CONTACT: Flush eyes immediately with running water for a long time. Seek medical assistance immediately.
INHALATION: The product is no volatile. If under particular conditions, such as in the case of fire, fumes or aerosols are inhaled, remove the patient to a well ventilated location and call a physician.
INGESTION:The product is harmful. If accidentally ingested, do not induce vomiting.Call immediately a physician.

5. FIRE-FIGHTING MEASURES

Flash point: approx 320 ° C
Autoignition: > 200 ° C
GENERAL INFORMATION: The product is combustible at temperature above ignition point.
Hazardous combustion products: carbon monoxide, carbon dioxide.
SUITABLE EXTINGUISHING MEDIA: Water spray, alcohol resistant foam, dry chemical powder, carbon dioxide.

6. ACCIDENTAL SPILL MEASURES

Accidental release measures ： Keep away from drains, waters and soil. Take up mechanically or with an absorbent material.

7. HANDING AND STORAGE

Operation note: wearing rubber gloves. Away from fire and heat source, workplace smoking is strictly prohibited. Light light discharge when handling to prevent packaging and container damage.
Storage precautions: store in a cool, dry and warehouse. Away from fire and heat source. Storage area should be equipped with the right material for leakage content.

8.EXPOSURE CONTROLS / PERSONAL PROTECTION

INDUSTRIAL HYGIENE: Avoid contact with skin and eyes. Remove all contaminated clothing.
EYE PROTECTION: Protective goggles.
HAND PROTECTION: Suitable protective gloves e.g. rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE at 20℃: yellow transparent liquid
ODOUR: Mild.
SOLIDIFICATION TEMPERATURE:approx1 0℃
BOILING TEMPERATURE (1013 hPa): approx.200℃
FLASH POINT : approx.320℃

IGNITION TEMPERATURE: ＞200℃
DENSITY at 25℃: About 1 g/cm3.
SOLUBILITY IN WATER (20℃): soluble in water

10. STABILITY AND REACTIVITY

STABILITY: No decomposition in the field of application.
HAZARDOUS REACTIONS: No.

11. TOXICOLOGICAL INFORMATION

Subacute and chronic toxicity: mild
Stimulus: mild stimulation to eyes and skin

Carcinogenicity: not classified as carcinogenic substances

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY: > 80% (28d)，readily biodegradable

13. DISPOSAL CONSIDERATIONS

PRODUCT: With respect to local regulations, e.g. dispose of to waste incineration plant.

14. TRANSPORT INFORMATION

TRANSPORT INFORMATION：No dangerous goods under the transport regulations.

15. REGULATORY INFORMATION

Regulatory information: do not belong to the dangerous chemicals

16. OTHER INFORMATION

NO

Appendix 2- Microbiological Quality Test Report of Cosmetic Product

1. Microbiological specification test report or data

See below report(s) if available

2. Preservative challenge test report or data

See below report(s) if available

TEST REPORT

NO.: A002T150330015-1R01A1 Date:Apr. 22, 2015

Customer: Hangzhou Sunking Nonwovens Co., Ltd

Address: No.888 Chongchao Road, Chongxian industrial Area, Yuhang District, Hangzhou, Zhejiang, China.

Report on the submitted sample said to be

Sample name: See sample description

Model: /

Item/Lot No.: /

Description: /

Buyer: /

Supplier: /

Manufacturer: /

Sample received date: Mar. 30, 2015

Testing period: From Mar. 30, 2015 to Apr. 22, 2015

Testing Requested:	**Conclusion**
1. As specified by client, to determine Heavy Matel content in the submitted sample in accordance with REGULATION (EC) No 1223/2009.	Pass
2 As specified by client, to determine The Microbiological analysis test(Aerobic bacterial count, Molds and Yeasts Count, Enterobacter /Gram-negative bacteria, Escherichia coli, Salmonella, Staphylococcus aureus, Clostridium, Candida albicans content)in the submitted sample.	/
3.As specified by client, to determine the Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted sample in accordance with Directive 94/62/EC.	Pass

Result:

Please refer to the next page(s).

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE (S)******

Signed for and on behalf of

Shenzhen AOV Testing Technology Co., Ltd, Kunshan Branch

Project Leader by: Sandy	Reviewed by: Owen	Approved by: Maggie
Xie Yun, Sandy	Guo Fu, Owen	Li Tingting, Maggie
Project Leader	Laboratory Supervisor	Laboratory Manager

TEST REPORT

Sample description:

No	Sample name	Description
1	Wet wipes in caniste	Standard: 7.5cm*13cm
1-1	White barrel body	/
2	Wet wipes	Standard: 17cm*20cm
2-1	Red packaging	/
2-2	Wet wipes（Blue packaging）	/
2-3	Wet wipes（White packaging）	/

Test Results:

1. Heavy Matel content: REGULATION (EC) No 1223/2009

Test method: US EPA 3052:1996,US EPA 6010C:2007 Measuring instrument: ICP-OES.

Item	Unit	MQL	Limit	Results
				2-3
Lead (Pb)	mg/kg	1	20	N.D.
Arsenic(As)	mg/kg	1	5	N.D.
Mercury (Hg)	mg/kg	1	1	N.D.
Cadmium (Cd)	mg/kg	1	5	N.D.
Antimony (Sb)	mg/kg	1	10	N.D.
Nickel (Ni)	mg/kg	1	10	N.D.

2. Microbiological analysis

Item	Unit	Result	Test method
		2-2	
Aerobic bacterial count	cfu/g	<20	GB 15979-2002
Molds and Yeasts Count	cfu/g	<20	
Escherichia coli	/	Not Detected	
Staphylococcus aureus	/	Not Detected	
Salmonella	/	Not Detected	
Enterobacter /Gram-negative bacteria	/	Absence	USP 32(62)
Clostridium	/	Absence	
Candida albicans	/	Absence	

TEST REPORT

3. Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted sample in accordance with Directive 94/62/EC.

Test method:

Testing Item	Pretreatment method	Measuring instrument	MQL
Lead (Pb)	US EPA3050B: 1996	ICP-OES	2 mg/kg
Cadmium (Cd)	EN1122: 2001	ICP-OES	2 mg/kg
Mercury (Hg)	US EPA3052: 1996	ICP-OES	2 mg/kg
Chromium(Cr Ⅵ)	US EPA3060A: 1996	UV-VIS	2 mg/kg

Test Results

Item	Unit	Results	
		1-1	2-1
Lead (Pb)	mg/kg	N.D.	N.D.
Cadmium (Cd)	mg/kg	N.D.	N.D.
Mercury (Hg)	mg/kg	N.D.	N.D.
Chromium (CrⅥ)	mg/kg	N.D.	N.D.
Total [Pb+ Cd+ Hg+ (CrⅥ)]	mg/kg	N.D.	N.D.
Limit [Pb+ Cd+ Hg+ (CrⅥ)]	mg/kg	100	100

Note:

-The test report A002T150330015-1R01A1 supersedes the test report A002T150330015-1R01 which is withdrawn.

- Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

-N.D. =Not Detected (<MQL)

- MQL=Method Quantitation Limit

- Photo is included.

TEST REPORT

Photograph of Sample

End of Report

Test Report Number: SHAH01103894

Applicant: HONGLIANG PROMOTION CO.,LTD
ROOM 601-603，NO.700
YANGMING（W）,YUYAO ZHEJIANG
Attn: JAMES

Date: Jul 12, 2019

Sample Description:

One group of submitted sample said to be :

Item Name : **WIPES PACKED IN POUCH**

Item No. : MO3863

****

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

****

Conclusion:

Tested Sample	Standard	Result
Submitted sample	British Pharmacopoeia 2017, appendix XVI C, efficacy of antimicrobial preservation and the European Pharmacopoeia, 9.0 edition, Chapter 5.1.3 Efficacy of antimicrobial preservation.	Pass

****

To be continued

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai

King Wang
Assistant Manager

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Joanne Li
General Manager

INTERTEK TESTING SERVICES LTD., SHANGHAI 上海天祥质量技术服务有限公司 检验检测专用章

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司

Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233

Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01103894

Tests Conducted

TEST RESULTS:

The “Efficacy of Antimicrobial Preservatives” is conducted according to European pharmacopoeia 9.0-5.1.3 and British pharmacopoeia appendix XVI.C.

Test organism	Log_{10} reduction (count)			
	Initial Concentration (cfu/ml)	7 days	14 days	28 days
Staphylococcus aureus (ATCC NO. 6538)	$6.7x10^5$	＞4.8	＞4.8	＞4.8
Escherichia coli (ATCC NO. 8739)	$9.9x10^5$	＞5.0	＞5.0	＞5.0
Pseudomonas aeruginosa (ATCC NO. 9027)	$5.3x10^5$	＞4.7	＞4.7	＞4.7
Candida albicans (ATCC NO. 10231)	$8.1x10^5$	＞4.9	＞4.9	＞4.9
Aspergillus brasiliensis (ATCC NO. 16404)	$1.6x10^5$	3.9	＞4.2	＞4.2

Acceptance of Criteria:

(2) EP 9.0 Table 5.1.3-2B Ear preparations, nasal preparations ,preparations for cutaneous application and preparation and preparations for inhalation

Criteria	Log_{10} reduction (count)	
	14 days	28 days
Bacteria	≥ 3	N.I.
Fungi	≥ 1	N.I.

Remark : N.I. = No increase in number of viable micro-organisms compared to the previous reading.

Log reduction : the criteria for evaluation of antimicrobial activity are given in the log reduction in the number of viable micro-organisms against the value obtained for the inoculum

Date Sample Received：Jun 04,2019

Testing Period：Jun 04,2019 To Jul 12, 2019

****

End of report

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司

Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233

Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Appendix 3- Stability Test Report or Data of Cosmetic Product

See below report(s) if available

杭州邦良日化有限公司

HANGZHOU BRIGHT DAILY CHEMICAL CO.,LTD.

产品稳定性试验检验报告

Stability testing report for wet wipes

表单编号/Report No: 190115　　订单号/Order No: HZBRM18-1126S

产品名称/Product Name: Cleansing wipes　　批号/Lot Number: CW0145

检验数量/Sample No: 20pcs　　检验日期/Testing Date: 15th,Jan,2019

序号 No	温度 ℃	湿度 %	检验周期 Month	检验项目 Test item	检验结果 Test conclusion	备注
I	40℃	70-75%	1	外观 Appearance	White	
				气味 Odor	Green tea	
				PH 值 PH	4.7-7	
				细菌菌落总数 Total Bacterial Count	＜10(cfu/g)	
				真菌菌落总数 Total Fungus Colony	None	
				外包装性质 Appearance of the packaging	Plastic+Alu package	
I	40℃	70-75%	2	外观 Appearance	White	
				气味 Odor	Green tea	
				PH 值 PH	4.7-7	
				细菌菌落总数 Total Bacterial Count	＜10(cfu/g)	
				真菌菌落总数 Total Fungus Colony	None	
				外包装性质 Appearance of the packaging	Plastic+Alu package	
II	25℃	70-75%	1	外观 Appearance	White	
				气味 Odor	Green tea	
				PH 值 PH	4.7-7	
				细菌菌落总数 Total Bacterial Count	＜10(cfu/g)	
				真菌菌落总数 Total Fungus Colony	None	
				外包装性质 Appearance of the packaging	Plastic+Alu package	

II	25℃	70-75%	2	外观 Appearance	White	
				气味 Odor	Green tea	
				PH 值 PH	4.7-7	
				细菌菌落总数 Total Bacterial Count	＜10(cfu/g)	
				真菌菌落总数 Total Fungus Colony	None	
				外包装性质 Appearance of the packaging	Plastic+Alu package	

结论/Conclusion：

检验员：Jack Ma　　审核人：Amber Lee　　批准人：

Inspected by　　Checked by　　approved by

日期：　　日期：　　日期：

Date 2019.1.15　　Date 2019.1.15　　Date 2019.1.15

HANGZHOU BRIGHT DAILY CHEMICAL CO.,LTD.

Appendix 4- Packaging Compatibility Test Report and/or data

1. Container data

1.1 Basic information

A plastic bag produced from pe and pet

INCI/Chemical Name * INCI	EINECS/ELINCS No	CAS / CI No. *	%*
polyethylene(PE)		9002-88-4	0.80
polyethylene terephthalate		25038-59-9	0.20
		Total	1.00

1.2 Stability data of Container

Under normal store condition of 10℃， 20℃,40℃， the appearance of the packaging won't change

1.3 Evidence for technical unavoidability of traces of prohibited substances

See below report(s) if available

Test Report Number: SHAH01099634

Applicant: HONGLIANG PROMOTION CO.,LTD Date: Jul 17, 2019
ROOM 601-603，NO.700
YANGMING（W）,YUYAO ZHEJIANG
Attn: JAMES

Sample Description:
One group of submitted sample said to be :
Item Name : **WIPES PACKED IN POUCH**
Item No. : MO3863

****

Tests Conducted:
As requested by the applicant, for details refer to attached page(s).

****

Conclusion:

Tested Sample	Standard	Result
Tested component	European Pharmacopoeia, 9.0 edition, Chapter 2.6.12 & 2.6.13 Microbiological examination of non-sterile products: microbial enumeration tests and tests for specified microorganisms SCCS Notes of Guidance for the Testing of Cosmetic Ingredients and their Safety Evaluation, 9th revision	Pass
	European Commission Regulation No. 10/2011, its amendments and Regulation No. 1935/2004- Overall migration	See Comment
	European Directive 94/62/EC and Amendments 2004/12/EC & 2005/20/EC & 2013/2/EU on packaging and packaging waste for Toxic Elements Test	Pass

****

To be continued

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai

King Wang
Assistant Manager

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Joanne Li
General Manager

INTERTEK TESTING SERVICES LTD., SHANGHAI 上海天祥质量技术服务有限公司 检验检测专用章

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司
Block B, Jinling Business Square, No.801 YiShan Road, Shanghai, China. 200233
上海市宜山路 801 号金陵商务广场 B 座 200233
Tel: +86 21 6120 6060
Fax: +86 21 6127 9708
www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01099634

Tests Conducted

1 TEST ITEMS:

To determine microorganisms in the submitted sample in accordance with :The SCCS Notes of Guidance for the Testing of Cosmetic Ingredients and Their Safety Evaluation, 9th Revision.

TEST METHOD:

With reference to European Pharmacopoeia 9.0 Edition, Chapter 2.6.12 & 2.6.13.

TEST RESULTS:

No.	Test items	SCCS Requirement (Category 2)	Test results	Single determination
1	Total Aerobic Microbial Count (CFU/g)	(1) + (2) $\leq 10^3$	＜10	Pass
2	Moulds and Yeasts Count (CFU/g)		＜10	
3	Bile-Tolerant Gram-Negative Bacteria(per g)	Absent	Negative	Pass
4	Escherichia coli (per g)	Absent	Negative	Pass
5	Salmonella (per 10g)	Absent	Negative	Pass
6	Pseudomonas aeruginosa (per g)	Absent	Negative	Pass
7	Staphylococcus aureus (per g)	Absent	Negative	Pass
8	Clostridia (per g)	Absent	Negative	Pass
9	Candida albicans(per g)	Absent	Negative	Pass

Remark:
CFU = Colony Forming Unit
Aerobic bacteria + Fungi = total viable aerobic count.

The limit of the total viable aerobic count is refer to SCCS's Notes of Guidance for the Testing of Cosmetic Ingredients and Their Safety Evaluation, 9th Revision.

- Category 1: Products specifically intended for children under 3 years, to be used in the eye area and on mucous membranes: should not exceed 10^2cfu/g or 10^2cfu/ml
- Category 2: Other products except category 1: should not exceed 10^3cfu/g or 10^3cfu/ml

****

To be continued

Intertek Testing Services Ltd., Shanghai
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www.intertek.com
www.intertek.com.cn

Test Report Number： SHAH01099634

Tests Conducted

2 Overall Migration Test For Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

I. Test Condition:

Aqueous food simulant	
Test no.	Time and Temperature
OM2	10 days at 40 °C

II. Test Results：

Tested Component	Result in mg/dm^2
	20% (v/v) ethanol
(1)	<1.0
Limit in mg/dm^2	10

Comment:
The testing scope of the following standard was not applicable to the tested component of submitted samples.
However, the test results of the tested sample met the related limits as stated in this report.

3 Toxic Elements Analysis

As per European Directive 94/62/EC and Amendments 2004/12/EC & 2005/20/EC & 2013/2/EU on packaging and packaging waste, acid digestion method was used and total toxic elements and Hexavalent Chromium content were determined by Inductively Coupled Argon Plasma Spectrometry and by UV-Visible Spectrophotometry.

	Result (ppm)	Limit (ppm)
Lead (Pb)	<5	--
Cadmium (Cd)	<1	--
Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<1	--
Total	(0-12)	100

Remark：ppm = Parts per million = mg/kg

Date Sample Received： May 24,2019
Testing Period： May 24,2019 To Jul 16, 2019

****

To be continued

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上海天祥质量技术服务有限公司
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Test Report Number： SHAH01099634

Tests Conducted

****

End of report

Intertek Testing Services Ltd., Shanghai
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Appendix 5- Serious/ Undesirable Effects of Cosmetic Product Declaration or Report

See below report(s) if available

浙江邦良日用品有限公司
Zhejiang Bright Commodity Co.,Ltd.
Add:No.29,Kaixuan West RD,Kecheng District,Quzhou City,Zhejiang,324000 China
Tel:86-571 8657 9471, Fax:86-571-8646 0050

LETTER OF DECLARATION

To Whom It May Concern:

Product Name: MO3863 WIPES PACKED IN POUCH
Product:
Reference No. in the questionnaire:
OR formulation:

Chemical Name	Trade Name	CAS number	Concentration (%)
Water	Water	7732-18-5	98.82%
Glycerin	Glycerin	56-81-5	0.50%
Polysorbate 20	Polysorbate 20	9005-64-5	0.30%
Bronopol	Bronopol	52-51-7	0.10%
Benzalkonium Chloride	Benzalkonium Chloride	8001-54-5	0.10%
PHMB	PHMB	32289-58-0	0.10%
Disodium EDTA	Disodium EDTA	6381-92-6	0.05%
Parfum	Parfum	/	0.03%

浙江邦良日用品有限公司
Zhejiang Bright Commodity Co.,Ltd.
Add:No.29,Kaixuan West RD,Kecheng District,Quzhou City,Zhejiang,324000 China
Tel:86-571 8657 9471, Fax:86-571-8646 0050

1. Animal testing and toxicity studies:

The raw material(s) used in the product and the finish product itself have not been subjected to any animals testing in order to meet the requirements of EU Cosmetic Regulation (EC) No 1223/2009.

2. Undesirable effects (UEs) and serious undesirable effects (SUEs)

The product or, where relevant, other cosmetic products have not been involved to any undesirable effects or serious undesirable effects as defined in the Article 21 of Regulation (EC) No 1223/2009.

Undesirable effects (UEs): "adverse reactions for human health attributable to the normal or reasonably foreseeable use of a cosmetic product."
Serious Undesirable effects (SUEs): "undesirable effects which result in temporary or permanent functional incapacity, disability, hospitalisation, congenital anomalies or an immediate vital risk or death."

I hereby confirmed that all the above information is complete and accurate and agree to immediately notify in writing of any changes to the above details.

Name: Monica

浙江邦良日用品有限公司
ZHEJIANG BRIGHT COMMODITY CO.,LTD
王前

Position: sales manager

Date: 2019/7/19

Company Address: No.29,Kaixuan West RD,Kecheng District,Quzhou City,Zhejiang,324000 China

Appendix 6- Fragrance

1. IFRA Certificate

See below report(s) if available

2. MSDS/SDS

See below report(s) if available

3. Allergen declaration

See below report(s) if available

杭 州 佳 影 香 精 有 限 公 司

HANGZHOU JIAYING Fragrances Co., Ltd.

IFRA CONFORMITY CERTIFICATE

Customer: Personal Care Products LLC

Fragrance:JY8892

We certify that above fragrance compound is in compliance with the Standards of the INTERNATIONAL FRAGRANCE A SSOCIATION(IFRA-48th Amendment, issued 10.06, 2015), provided it is used in following applications, corresponding to the following IFRA Classes, at a maximum concentration level of:

IFRA Class	Maximum IFRA compliant level of use (%)
Class 1A (Lip product; Toy) *	4.17
Class 1B (Waxes for hair removal)	4.17
Class 2 (Deo/AT, all types)	5.42
Class 3A (Hydroalcoholic Shaved Skin / Men&Unisex EdT)	20.83
Class 3B (Men&Unisex Fine Fragrance/Parfum)	20.83
Class 3C (Eye product; Men facial cream; Baby cream/lotion/oil)	20.83
Class 3D (Tampons)	20.83
Class 4A (Women EdT; Scent strips/pads)	66.67
Class 4B (Women Fine Fragrance/Parfum)	66.67
Class 4D (Fragrancing Cream, all types)	66.67
Class 5 (e.g. Hand cream; Women facial cream; Refreshing tissue/wipe)	33.33
Class 6 (Mouthwash; Toothpaste; Breath Spray) *	0.00
Class 7A (Intimate/Baby wipe)	12.5
Class 7B (Insect Repellent)	12.5
Class 8A (e.g. Nail care; Hair styling aid non-spray; Powder)	83.33
Class 8B (Hair dyes)	83.33
Class 9A (Cosmetic Rinse-Off product: e.g. Soap; Shampoo)	100
Class 9B (Feminine liner; Hygiene pad; Napkin)	100
Class 9C (e.g. non-cosmetic Aerosol, incl. Air-Freshener)	100
Class 10A (e.g. Household Cleansing; Detergents; Laundry prod.)	100
Class 10B (Diapers; Toilet seat wipe)	100
Class 11A (Non-skin contact: e.g. Candle; Toilet block; Air delivery systems)	100
Class 11B (Incidental skin-contact: e.g. Shoe polish; Pot pourri; Scratch&Sniff)	100

Evaluations for Class 1.A (Lip product, Toy) and Class 6 (Oral hygiene) include a compliance check as proposed by IOFI Code of Practice,for example FEMA GRAS listing of ingredients or FDA approval for food additves. This does not mean "food grade" compliance of the fragrance.The compliance with appropriate regulations for foods and food flavorings in the countries of planned distribution of the fragranced consumer products remains in sole responsibility of final consumer product manufacturer or distributor.

For other kinds of application or use at higher concentration levels, a new evaluation may be needed.

Please contact with Hangzhou Jiaying Fragrances Co., Ltd..The IFRA Standards are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM).

For more information on the Quantitative Risk Assessment (QRA) applied by IFRA and on IFRA's

classification of product types, please refer to www.ifraorg.org and www.rifm.org .

Disclaimer:

This Certificate for IFRA Compliance provides restrictions for use of the specified product (IFRA Category / Class) based only on those materials restricted by IFRA Standards for the toxicity endpoint(s) described in each IFRA Standard. This Certificate, therefore, does not provide certification of a comprehensive safety assessment of all product constituents.

IFRA Compliance does not relieve individual manufacturers from the obligation to comply with all relevant local, national or international regulations that pertain to their operations. It is the ultimate responsibility of our customer to ensure the safety and regulatory compliance of the final consumer product containing this fragrance, e.g. By further testing if needed.

This certificate reflects our current state of knowledge and replaces former IFRA declarations for the fragrance in same product types.

杭 州 佳 影 香 精 有 限 公 司

HANGZHOU JIAYING FRAGRANCES.CO-LTD

Perfume Name：JY8892

SUDSTANCE	Chinese name	CAS REGISTRY	PRESENI OR ABSENT	Cancentration if present(%)
Amyl cinnamal	戊基桂醛	122-40-7	ABSENT	/
Benzyl Alcohol	苄　醇	100-51-6	ABSENT	/
Cinnamyl alcohol	桂　醇	104-54-1	ABSENT	/
Citral	柠檬醛	5392-40-5	PRESENI	0.7
Eugenol	丁香酚	97-53-0	ABSENT	/
Hydroxy-citronellal	羟基香茅醛	107-75-5	ABSENT	/
Isoeugenol	异丁香酚	97-54-1	ABSENT	/
Amylcin namyl alcohol	戊基桂醇	101-85-9	ABSENT	/
Benzyl salicylate	柳酸苄酯	118-58-1	ABSENT	/
Cinnamal	桂　醛	104-55-2	ABSENT	/
Coumarin	香豆素	91-64-5	PRESENI	3
Geraniol	香叶醇	106-24-1	PRESENI	3
Hydroxy-methylpentyl-Cyclohexenecarboxaldehyde(Lyral)	新铃兰醛	31906-04-4	ABSENT	/
Anisyl alcohol	大茴香醇	105-13-5	ABSENT	/
Benzyl cinnamate	桂酸苄酯	103-41-3	ABSENT	/
Farnesol	金合欢醇	4602-84-0	ABSENT	/
Linalool	芳樟醇	78-70-6	PRESENI	18
2-(4-tert-Butylbenzyl)propionaldehyde	铃兰醛	80-54-6	ABSENT	/
Benzyl benzoate	苯甲酸苄酯	120-51-4	ABSENT	/
Citronellol	香茅醇	106-22-9	ABSENT	/
Hexyl cinnam aldehyde	甲位己基桂醛	101-86-0	ABSENT	/
d-Limonene	柠　烯	5989-27-5	PRESENI	0.1
Methyl heptyne carbonate	庚炔羟酸甲酯	111-12-6	ABSENT	/
Oakmoss extract	橡苔净油	90028-68-5	ABSENT	/
3-Methyl-4-(2,6,6trimethyl-2-cyclohexen-1-3-buten-2-one Methyl	甲基紫罗兰酮	127-51-5	ABSENT	/
Treemoss extract	树苔油	90028-68-4	ABSENT	/

HANGZHOU JIAYING FRAGRANCES.CO-LTD

Appendix 7- Heavy Metal Test Report of Cosmetic Product

See below report(s) if available

TEST REPORT

Client : Mid Ocean Brands B.V.

Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

The following merchandise was (were) submitted and identified by the client as:

Name of Product :	Wipes packed in pouch
Test Model :	MO3863
Model May Cover :	/
Main Material:	/
Supplier:	107961
Buyer:	/
Sample Received :	Feb. 28, 2019
Test Period :	Feb. 28, 2019 - Mar. 06, 2019

Test Specification and Conclusion:

Heavy Metal content according to Client's Requirement Limit. PASS

Prepared By : **David Chen**
Testing Engineer

Reviewed By : **Dora Cheng**
Reporter Supervisor

Issued By : **Ada Wang**
Lab Manager

SZ2019020419-1E

TEST REPORT

TEST RESULTS:

Heavy Metal content

Test Method: With reference to EPA3052-1996&EPA8270E-2018, Analysis was performed by ICP-AES.

Test Items	MDL (mg/kg)	Test Results (mg/kg)		Client's Requirement Limit (mg/kg)
		1#	2#▲	
Pb	1	N.D.	N.D.	20
As	1	N.D.	N.D.	5
Hg	1	N.D.	N.D.	1
Cd	1	N.D.	N.D.	5
Sb	1	N.D.	N.D.	10
Ni	1	N.D.	N.D.	10

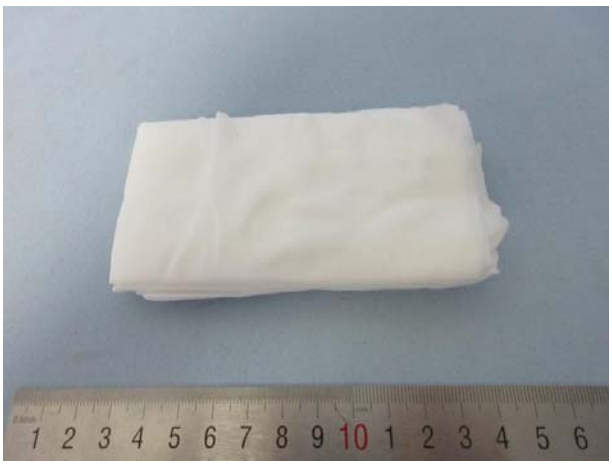
Note : 1) MDL = Method Detection Limit.
2) N.D. = Not detected, less than MDL.
3) ▲As the client required, the sample was tested in mixture.

Test Part Description:

1# White towel

2# White PE outer packing bag

SAMPLE PHOTOS



1#

2#

PRODUCT PHOTO

REFERENCE PHOTO

********** END OF REPORT ***********

GENERAL CONDITIONS OF SERVICES

STQ Testing Services Co.,Ltd. (hereinafter "STQ"), while reserving the right to decline, without giving any reason whatsoever, any request for the undertaking of a test or investigation, will carry out at the request of the clients the required test or investigation subject always to the following conditions:

1.STQ only acts for the person or body originating the instructions (the"Clients"). No other party is entitled to give instructions, particularly on the scope of testing or delivery of report or certificate, unless authorized by the Clients.
2.The Sample(s) to be tested or investigated shall be delivered at the costs of the Clients and in accordance with the requirements of STQ. Improper shipping, packaging, and labeling of the Sample(s) by the Client may result in incorrect testing results, STQ shall be under no obligation to the Clients. At the conclusion of the test or investigation, the Clients shall，if required by STQ, collect the Sample(s). In any event, if the Sample(s) are not collected by the Clients within 60 days from the issuance date of the test report (for perishable items such as food and water samples, the relevant period shall be the preserving period up to 15 days), STQ may at its discretion dispose of the Sample(s) without any compensation to the Clients.
3.The Clients shall always comply with the following before or during STQ providing its services:
a) provide sample(s) and relevant data, at the same time, guarantee the consistence of the sample(s)'name they declared with the sample(s) or the goods provided. Otherwise, STQ will not bear any relevant responsibilities;
b) giving timely instructions and adequate information to enable STQ to perform the services effectively;
c) supply, when requested by STQ, any equipment and personnel for the performance of the services;
d) take all necessary steps to eliminate or remedy any obstruction in the performance of the services;
e) inform STQ in advance of any hazards or dangers, actual or potential, associated with any order of samples or testing;
f) provide all necessary access for STQ's representative to enable the required services to be performed effectively;
g) ensure all essential steps are taken for safety of working conditions, sites and installations during the performance of services;
h) fully discharge all its liabilities under any contract like sales contract with a third party, whether or not a report or certificate has been issued by STQ, failing which STQ shall be under no obligation to the Clients.
4.Subject to STQ's accepting the Client's instructions, STQ will issue reports or certificates which reflect statements of opinion made with due care within the scope of instructions but STQ is not obliged to report upon any facts outside the instructions, if there were any dissidence about the report or certificate, the Client should provide the written declaration to STQ within 15 days after the date receiving the report or certificate, otherwise, STQ will not hear the case after the date limit.
5.STQ is irrevocably authorized by the Clients to deliver at its discretion the report or the certificate to any third party when instructed by the Clients or where it implicitly follows from circumstances, trade custom, usage or practice as determined by STQ.
6.A test report will be issued in confidence to the Clients and it will be strictly treated as such by STQ. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of STQ. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by STQ, to his customer, supplier or other persons directly concerned. STQ will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the report unless required by the relevant governmental authorities, laws or court orders.
7.Applicants wishing to use STQ's reports in court proceedings or arbitration shall inform STQ to that effect prior to submitting the sample for testing.
8.The report will refer only to the sample tested and will not apply to the bulk, unless the sampling has been carried out by STQ and is stated as such in the Report. Also, the report is only for reference.
9.Any documents containing engagements between the Clients and third parties like contracts of sale, letters of credit, bills of lading, etc. are regarded as information for STQ only and do not affect the scope of the services or the obligations accepted by STQ.
10.If the Clients do not specify the methods/standards to be applied, STQ will choose the appropriate ones and further information regarding the methods can be obtained by direct contact with STQ, for the in－house method, STQ will only provide the summary.
11.No liability shall be incurred by and no claim shall be made against STQ or its servants, agents, employees or independent contractors in respect of any loss or damage to any such materials, equipment and property occurring whilst at STQ or any work places in which the testing is carried out, or in the course of transit to or from STQ or the said work places, whether or not resulting from any acts, neglect or default on the part of any such servants, agents, employees or independent contractors of STQ.
12.STQ will not be liable, or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its reports or in any communication whatsoever about its said tests or investigations.
13.Subject to Clause 11 and 12, the total liability of STQ in respect of any claim of loss, damage or expense of whatsoever nature shall not exceed a total sum equal to two times the amount of the service fee payable in respect of the services directly related to such claim, and STQ's liability shall not include any indirect, special or consequential loss of the Clients.
14.In the event of STQ prevented by any cause outside STQ's control from performing any service for which an order has been given or an agreement made, the Clients shall pay to STQ:
a) the amount of all abortive expenditure actually made or incurred;
b) a proportion of the agreed fee or commission equal to the proportion (if any) of the service actually carried out by STQ, and STQ shall be relieved of all responsibility whatsoever for the partial or total non－performance of the required service.
15.STQ shall be discharged from all liabilities for all claims for loss, damage or expense unless suit is brought within one calendar

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Technical service: TS@stq-cert.com Customer service: CS@stq-cert.com

year after the date of the performance by STQ of the service relating to the claim or in the event of any alleged non－performance within one year of the date when such service should have been completed.

16.The Clients acknowledge that STQ does not, either by entering into a contract or by performing service, assume or undertake to discharge any duty of the Clients to any other persons. STQ is neither an insurer nor a guarantor and disclaims all liability in such capacity.

17.The Clients shall hold harmless and indemnify STQ and its officers, employees, agents or independent contractors against all claims made by any third party for loss，damage or expense of whatsoever nature including reasonable legal expenses relating to the performance or non- performance of any services to the extent that the aggregate of any such claims relating to any one service exceed the limits mentioned in Clause 13.

18.Any unauthorized alteration, forgery or falsification of the content or appearance of the report/certificate is unlawful and offenders may be prosecuted to the fullest extent of the law; in the event of improper use of the report, STQ reserves the right to withdraw it, and to adopt any other measures which may be appropriate.

19.Samples are deposited with and accepted by STQ on the basis that either they are insured by the Clients or the Clients assumes entire responsibility for loss through fire, theft, burglary or for damages arising in the course of analysis or handling, without recourse whatsoever to STQ or its servants, agent, employees or independent contractors.

20.If the requirements of the Clients require the analysis of samples by the Clients' or any third party's laboratory, STQ will only convey the result of the analysis without responsibility for its accuracy. If STQ is only able to witness an analysis by the Clients' or any third Party's laboratory STQ will only confirm that the correct sample has been analyzed without responsibility for the accuracy of any analysis or results.

21.In the event of any unforeseen additional time or costs being incurred in the course of carrying out any of its services, STQ shall be entitled to charge the Clients additional fees to reflect the additional time and costs incurred.

22.All rights（including but not limited to copyright）in any reports, certificates or other materials produced by STQ in the course of providing its services shall remain vested in STQ.

23.Unless otherwise agreed in writing, payment is to be made within 10 days from the date of Invoice or the date of the Debit Note, all charges rendered by STQ or interest will become due at the rate of three percent per month from the date of invoice until actual payment. The Clients are also responsible for settling all STQ's costs of collecting the charges owed, including legal fees.

24.Test results may be transmitted by electronic means at the Client's request. However, it should be noted that electronic transmission cannot guarantee the information contained will not be lost, delayed or intercepted by third party. STQ is not liable for any disclosure, error or omission in the content of such messages as a result of electronic transmission.

25.If necessary, STQ may subcontract part of or all tests to competent subcontractors. If no objection is raised at the time of the Clients submitting the application, STQ shall assume the Client's approval.

26.This report/certificate does not relieve sellers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice the Client's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during STQ's random inspection or testing or audit.

27.STQ reserves the right to include Special Conditions in addition to the foregoing General Conditions if warranted by the particular circumstances of the required test or investigation [this clause is only effective when the other party has been informed].

28.The foregoing General Conditions shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations. Unless otherwise agreed, the arbitration shall take place in P．R．C

29.These General Condition have been drafted in Chinese and may be translated into other languages. In the event of any discrepancy, the Chinese version shall prevail.

30.In general sample will be stored for 60 days. But for liquid, powder, etc semi-product & fragile product, it will be stored only for 7 days.

31.The effective date of this"GENERAL CONDITIONS OF SERVICES"is 1st May of 2017 and Version 2.0.

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Technical service: TS@stq-cert.com Customer service: CS@stq-cert.com

Appendix 8- Human Volunteers Studies

1. Human volunteers study for the cosmetic product

No existing studies from human volunteers for cosmetic product(s) were provided

2. Human volunteers study for raw material

No existing studies from human volunteers for raw material(s) were provided

Appendix 9- Assessor's credentials

LONDON metropolitan university

BO CHEN

has been awarded the degree of

Master of Science with Merit

having successfully completed the approved postgraduate programme in

Pharmaceutical Science

Vice-Chancellor and Chief Executive

Malcolm Gillies

Academic Registrar

Dated 20th October 2011

-226947441

DIPLOMA SUPPLEMENT

LONDON metropolitan university

This Diploma Supplement model was developed by the European Commission, Council of Europe and UNESCO/CEPES. The purpose of the supplement is to provide sufficient independent data to improve the international 'transparency' and fair academic and professional recognition of qualifications (diplomas, degrees, certificates etc.). It is designed to provide a description of the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It should be free from any value judgements, equivalence statements or suggestions about recognition. Where information is not provided an explanation should give the reason why.

Family Name	Chen
Given Name	Bo
Student ID	06055124/2
Main field(s) of study	Pharmaceutical Science
Level of qualification	Masters
Official length of programme	One to six years depending on mode of study
Access requirements	http://www.londonmet.ac.uk/courses/entry-requirements.cfm
Mode of study	Full-time
Programme requirements	http://intranet.londonmet.ac.uk/postgrad-line
Additional information	www.londonmet.ac.uk
Further information sources	www.naric.org.uk

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Bo CHEN (Benson CHEN)

MSc. In Pharmaceutic Science

Career Experience

- Nov 2017-Present: Senior Regulatory Specialist, Senior Toxicologist - HBP - Intertek, Shanghai
- Jan 2017-Oct 2017: Senior Regulatory Specialist- HERS- Intertek, Shanghai
- Apr 2015 –Jun 2016: Toxicological Safety Officer -HBP- Intertek, Shanghai
- Nov 2012- Mar 2015: Toxicological Risk Assessor – Intertek, Shenzhen
- Dec 2011- Oct 2012: Quality Assessor-Shanghai Pharmaceutical Co., LTD

Qualifications

- Member of Chinese Society of Toxicology, since 2015
- MSc. in Pharmaceutic Science, London Metropolitan University 2011
- BSc. in Pharmacy, Shanghai University of Traditional Chinese Medicine, 2010