enthone

Safety Data Sheet

Safety Data Sheet

Section 1. Identification

Product name : ALKLEEN™ 101

Product code : 424748

Uses advised against : Consumer, private households, general public

Product type : Powder.

Validation date : 1/23/2014.

Manufacturer - Supplier	Telephone no.:	Fax no.	Emergency phone:
Enthone Inc 350 Frontage Road West Haven, CT 06516	Tel: (203) 934-8611	Fax:(203) 799-8179	DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)
Cookson Enthone Chemistry Trading (Shanghai) Co., Ltd. Rm 201, No.388 of Muhua North Road, Fengxian District, Shanghai	Tel: 86-21-6390 0600	Fax: 86-21-50912810	Tel: 0532-8388 9090 (24- hour)
Enthone Chemistry A Division of Cookson Singapore Pte Ltd 26 Tuas West Road Singapore 638382	Tel: (65) 6861 1773	Fax: (65) 68611145	Tel: (65) 6861 1773
ENTHONE SDN. BHD. Lot 34 & 36 Lorong IKS Juru 7 Taman Perindustrian Ringan Juru 14100 Simpang Ampat Seberang Perai Selatan Penang, Malaysia	Tel: 60 - 4 507 7787	Fax: 60 4 507 0621	Tel: 60 4 507 7787
Enthone Korea 1Ra 310, Sihwa Industrial Complex, 1247-9, Jungwang-Dong, Siheung-Si, Gyeonggi-Do, Korea	Tel: 82-31-432-4100	82-31-433-1478	Tel: 82-31-432-4100
Enthone Inc. Taiwan Branch 2F, B Building, No. 10, Lu-Shing Street, Luchu Hsiang, 338 Taoyuan, Taiwan	Tel: 03-312-0280	Fax: 03-312-0380	Tel: 886-937408981
Alent Japan Company - Enthone 480-28 Higashitoyoda, Hiratsuka, Kanagawa 254-0082, Japan	Tel: 81-463-51-4330	Fax: 81-463-55-2588	Tel: 81-(0)463-51-4330
Enthone India A Division of Cookson India Pte. Ltd Developed Plot no 16, North Phase, SIDCO Industrial estate, Ambattur, Chennai - 600098.	Tel: 91-44-26252666	Fax: 91-44-26258627	Tel: 91-44-26252666

Section 2. Hazards identification

Classification of the : ACUTE TOXICITY: ORAL - Category 5
substance or mixture : TOXIC TO REPRODUCTION [Fertility]

TOXIC TO REPRODUCTION [Fertility] - Category 1B TOXIC TO REPRODUCTION [Unborn child] - Category 1B

AQUATIC TOXICITY (ACUTE) - Category 1

GHS label elements

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Section 2. Hazards identification

Symbol





Signal word : Danger

: May be harmful if swallowed. **Hazard statements**

May damage fertility or the unborn child.

Very toxic to aquatic life.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions

have been read and understood. Do not breathe dust or mist. Use personal protective equipment as required. Avoid release to the environment. Keep out of reach of children. If medical advice is needed, have product container or label at

hand.

Response : IF exposed or concerned: Call a POISON CENTER or doctor/physician if you feel

unwell. Get medical attention/advice. Collect spillage.

: Store locked up. **Storage**

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

result in classification

Other hazards which do not : Handling and/or processing of this material may generate a dust which can cause

mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Detergent.	40-50	-
Sodium Salt	30-40	-
Proprietary phosphates	1-10	-
Alkyl sulfonate.	1-10	-
surfactant	1-10	-
Nonyl Phenol.	0.1-1.0	-

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

Section 4. First aid measures

Description of necessary first aid measures

Inhalation

: Set medical attention. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Move exposed person to fresh air. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Keep person warm and at rest. If unconscious, place in recovery position and get medical attention immediately. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

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Section 4. First aid measures

Ingestion

Get medical attention if symptoms appear. Move exposed person to fresh air. Wash out mouth with water. Keep person warm and at rest. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove dentures if any. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Never give anything by mouth to an unconscious person. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Skin contact

: Get medical attention. Flush contaminated skin with plenty of water. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

: Get medical attention if irritation occurs. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids

Over-exposure signs/symptoms

See section 11 for more detailed information on health effects and symptoms.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that mists are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Personnel should wear protective clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Section 5. Fire-fighting measures

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Specific hazards arising from the chemical

: This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides

fiahters

Special precautions for fire : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark : Not available.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

: Avoid exposure - obtain special instructions before use. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Put on appropriate personal protective equipment (see section 8). Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid exposure during pregnancy. Do not ingest. Avoid breathing dust. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Be sure area is equipped with all necessary emergency equipment including fire extinguishers, and spill response materials. Empty containers retain product residue and can be hazardous. Do not reuse product container. Avoid breathing dust. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
Detergent.	ACGIH TLV (United States, 3/2005). TWA: 1 mg/m³ 8 hour(s). ACGIH TLV (United States, 3/2012). Notes: Refers to Appendix A Carcinogens. Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. ACGIH 2005 Adoption STEL: 6 mg/m³ 15 minute(s). Form: Inhalable fraction

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Section 8. Exposure controls/personal protection

TWA: 2 mg/m³ 8 hour(s). Form: Inhalable fraction

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles. Avoid contact with eyes.

Skin protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Avoid contact with skin and clothing. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 9. Physical and chemical properties

Physical state : Solid. [Powder.]

Color : Off-white. to Light tan.

Odor : Musty soap
Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : Not available.

Burning time : Not available.

Burning rate : Not available.

Evaporation rate : Not available.

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Section 9. Physical and chemical properties

Flammability (solid, gas) Not available.

Lower and upper explosive

: Not available.

(flammable) limits

Vapor density

Vapor pressure : Not available. : Not available. **Relative density** : Not available. : Not available.

Octanol/water partition

coefficient

Viscosity

Solubility

: Not available.

Decomposition temperature: Not available. **Auto-ignition temperature**

: Not available. : Not available.

Section 10. Stability and reactivity

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid exposure - obtain special instructions before use. Avoid exposure during

pregnancy. Avoid release to the environment.

Incompatibility with various

substances

: Reactive with oxidizing agents, reducing agents, acids.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Other Hazardous

decomposition products

: oxides of nitrogen, oxygen or Hydrogen

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Routes of entry : Eye contact. Inhalation. Ingestion.

Potential health effects

Inhalation

: Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Ingestion : May be harmful if swallowed. Skin May cause skin irritation.

: Exposure to airborne concentrations above statutory or recommended exposure **Eyes**

limits may cause irritation of the eyes.

Chronic toxicity

: May damage the unborn child. **Teratogenicity**

Fertility effects : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3294.1 mg/kg

Dose	Exposure

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Section 11. Toxicological information

Sodium Salt	LD50 Oral	Rat	4090 mg/kg	-
Proprietary phosphates	LD50 Oral	Rat	3120 mg/kg	-
Alkyl sulfonate.	LD50 Oral	Rat	650 mg/kg	-
	LD50 Oral	Rat	650 mg/kg	_
surfactant	LD50 Oral	Rat	3800 mg/kg	_
Nonyl Phenol.	LD50 Dermal	Rabbit	2 g/kg	_
	LD50 Oral	Rat	3.31 g/kg	_
	LD50 Oral	Rat	1310 mg/kg	-

Additional information:

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Detergent.	-	-	Equivocal		Oral: 37 g/kg	-

Section 12. Ecological information

Ecotoxicity : This material is very toxic to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Test	Result		
Sodium Salt	-	Acute EC50 242000 ug/L	Algae - Diatom - Navicula	96 hours
		Fresh water	seminulum	
	-	Acute LC50	Crustaceans -	48 hours
		176000 ug/L	Scud Order -	
		Fresh water	Amphipoda	
	-	Acute LC50	Daphnia - Water	48 hours
		265000 ug/L	flea - Daphnia	
		Fresh water	magna	
	-	Acute LC50	Fish - Bluegill -	96 hours
		300000 ug/L	Lepomis	
		Fresh water	macrochirus -	
			3.88 cm - 0.96 g	
Proprietary phosphates	-	Acute EC50	Crustaceans -	48 hours
		276.61 mg/L	Water flea -	
		Fresh water	Ceriodaphnia	
			dubia - Neonate -	
			<24 hours	
Nonyl Phenol.	_	Acute EC50 12	Algae - Green	96 hours
,		mg/L Fresh water	algae -	
		g	Pseudokirchneriella	
			subcapitata	
	-	Acute LC50 2.6	Crustaceans -	48 hours
		ug/L Fresh water	Fairy shrimp -	_
			Thamnocephalus	
			platyurus -	
			Nauplii - 24 hours	
	-	Acute LC50 4800	Daphnia - Water	48 hours
		ug/L Fresh water	flea - Daphnia	
		1.5. = 7.155 1.316.	pulex - Larvae -	
			<=24 hours	
	_	Acute LC50 1300	Fish - Bluegill -	96 hours
		ug/L Fresh water	Lepomis	00110010
		ag. 2 : 100 W ator	macrochirus - 1 g	
	_	Chronic NOEC	Fish - Medaka,	100 days
	-	Cilionic NOEC	i isii - ivicuana,	100 days

Section 12. Ecological information

Conclusion/Summary: Not available.

Persistence/degradability

Product/ingredient name	Test	Result
Not available.		

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis
Not available.		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF
Not available.		

Mobility : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG* Label	Additional information
DOT Classification	Not regulated.	-	-	-	-
IMDG Class	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nonyl Phenol., Alkyl sulfonate.). Marine pollutant (Alkyl sulfonate.)	9		Marine pollutant
IATA-DGR Class	UN3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Nonyl Phenol., Alkyl sulfonate.)	9		-

Section 14. Transport information

UN3077 ENVIRONMENTALLY 9
HAZARDOUS
SUBSTANCE, SOLID,
N.O.S. (Nonyl
Phenol., Alkyl
sulfonate.)

PG*: Packing group

Section 15. Regulatory information

China

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

<u>Korea</u>

a. Regulation according to ISHA

ISHA Article 37 : The following components are listed: Nonyl Phenol.

ISHA Article 38 : None of the components are listed.

b. Regulation according to TCCA

TCCA Toxic chemicals : Not applicable

TCCA Observational

chemicals

: None of the components are listed.

TCCA Article 32

(Banned)

: None of the components are listed.

TCCA Article 32

(Restricted)

: The following components are listed: Nonyl Phenol.

c. Dangerous Materials

Control Act

: Not available.

Europe

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product

(including its ingredients).

Japan

Poisonous and Deleterious Substances

Ingredient name Status

None of the components are listed.

ISHL

ISHL Class :

Working Conditions Act; Health and Safety Act

Law Concerning
Prevention of Pollution

Prevention of Pollution of the Ocean and Maritime

Disaster

ISHL Prevention of : No

Tetraalkyl Lead Poisoning

: Not listed

ISHL Harmful Substances

Subject to Obtaining Permission for Manufacturing : Not listed

: Marine pollutant: P

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Section 15. Regulatory information

ISHL Harmful Substances,

ISHL Chemicals requiring

Prohibited for

Manufacturing

: Not listed

notification

ISHL Dangerous Substances

: Not listed

List of Specially Controlled: Not listed

Industrial Waste

Pollutant Release and

Transfer Registers (PRTR)

: Class 1

Fire Service Law -**Obstructive materials** : Not listed

Taiwan

be a "threat of imminent danger"

List of chemicals reputed to : This product contains substances considered to be a "Threat of imminent danger":

sulphuric acid, Aldehyde., ethylene oxide.

International lists

United States TSCA : TSCA 5(a)2 proposed significant new use rules: No products were found.

TSCA 5(a)2 final significant new use rules: No products were found.

TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory

(TSCA 8b)

: All components are listed or exempted.

Section 16. Other information

History

Validation date **Supersedes Date** Prepared by

: 1/23/2014. : 3/27/2013. : T. Valverde (203)-799-4940

Enthone Inc

350 Frontage Road West Haven, CT 06516 Phone: (203) 934-8611 Fax: (203) 799-8179 www.enthone.com

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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Section 16. Other information

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