Auto Klene Turtle Wax HP 90 Presoak

Auto Klene Solutions

Print Date: 06/04/2016

Safety Data Sheet according to WHS and ADG requirements

Initial Date: **Not Available** S.GHS.AUS.EN

Chemwatch Hazard Alert Code: 3

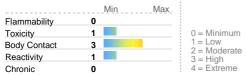
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier				
Product name	Auto Klene Turtle Wax HP90			
Synonyms	Not Available			
Proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (contain	ns sodium hydroxide)		
Other means of identification	Not Available			
Relevant identified uses of the	e substance or mixture and uses advis	sed against		
Relevant identified uses	One Shot cleaner for bay touchless car wa	sh machines.		
Details of the supplier of the	safety data sheet			
Registered company name	Auto Klene Solutions		Auto Klene Solutions	
Address	4/87-91 Heatherdale Road VIC Ringwood	3174 Australia	1/83 Merrindale Drive VIC Croydon 3136 Australia	
Telephone	+61 3 9872 5911áá		+61 3 8761 1900	
Fax	+61 3 9872 6025		+61 3 8761 1955	
Website	https://www.autoklene.com		https://www.autoklene.com/msds/	
Email	Not Available		Not Available	
Emergency telephone number	er			
Association / Organisation	Not Available	Not Available		
Emergency telephone numbers	Not Available	131 126 (Poisons Information Centre)		
Other emergency telephone numbers	Not Available	0408 406 968 (Mark Adams mol	pile)	
SECTION 2 HAZARDS ID	ENTIFICATION			
			·	

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS



Poisons Schedule	S5
[1] Classification	Metal Corrosion Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

abel elements

GHS label elements



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SIGNAL WORD	DANGER
Hazard statement(s)	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s) F	Prevention
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P234	Keep only in original container.
P273	Avoid release to the environment.
Precautionary statement(s) F	Response
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
Precautionary statement(s) S	Storage
P405	Store locked up.
Precautionary statement(s) [Disposal
P501	Dispose of contents/container in accordance with local regulations.
SECTION 3 COMPOSITIO	N / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

Mixtures		
CAS No	%[weight]	Name
Not Available	5-10	alkaline salts.
68989-03-7	0-10	quaternary cocoamine dimethyl sulfate, ethoxylated
1310-73-2	<5	sodium hydroxide
6834-92-0	<5	sodium metasilicate, anhydrous
Not Available	0-15	Ingredients determined not to be hazardous
7732-18-5	balance	water

SECTION 4 FIRST AID MEASURES

Description of first aid meas	ures
Eye Contact	If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ► Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ▶ Immediately flush body and clothes with large amounts of water, using safety shower if available. ▶ Quickly remove all contaminated clothing, including footwear. ▶ Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. ▶ Transport to hospital, or doctor.

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▶ If fumes or combustion products are inhaled remove from contaminated area. ▶ Lay patient down. Keep warm and rested.

- ▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- ▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.
- ▶ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
- ▶ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).
- As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.
- ▶ Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. This must definitely be left to a doctor or person authorised by him/her.

 (ICSC13719)

Ingestion

Inhalation

- ▶ For advice, contact a Poisons Information Centre or a doctor at once.
- ▶ Urgent hospital treatment is likely to be needed.
- ▶ If swallowed do NOT induce vomiting
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Transport to hospital or doctor without delay

Indication of any immediate medical attention and special treatment needed

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.
- ▶ The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure

INGESTION:

Milk and water are the preferred diluents

No more than 2 glasses of water should be given to an adult.

- Neutralising agents should never be given since exothermic heat reaction may compound injury.
- * Catharsis and emesis are absolutely contra-indicated.
- * Activated charcoal does not absorb alkali.
- * Gastric lavage should not be used.

Supportive care involves the following:

Withhold oral feedings initially.

Mf endoscopy confirms transmucosal injury start steroids only within the first 48 hours.

Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.

Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

SKIN AND EYE:

Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology]

For exposures to quaternary ammonium compounds;

- For ingestion of concentrated solutions (10% or higher): Swallow promptly a large quantity of milk, egg whites / gelatin solution. If not readily available, a slurry of activated charcoal may be useful. Avoid alcohol. Because of probable mucosal damage omit gastric lavage and emetic drugs.
- For dilute solutions (2% or less): If little or no emesis appears spontaneously, administer syrup of lpecac or perform gastric lavage.
- If hypotension becomes severe, institute measures against circulatory shock
- If respiration laboured, administer oxygen and support breathing mechanically. Oropharyngeal airway may be inserted in absence of gag reflex. Epiglottic or laryngeal edema may necessitate tracheotomy.
- Persistent convulsions may be controlled by cautious intravenous injection of diazepam or short-acting barbiturate drugs. [Gosselin et al, Clinical Toxicology of Commercial Products]

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ Water spray or fog
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard.
- ▶ Wear full body protective clothing with breathing apparatus
- ▶ Prevent, by any means available, spillage from entering drains or water course.
- Fire Fighting

 Use fire fighting procedures suitable for surrounding area.
 - Do not approach containers suspected to be hot.
 - ▶ Cool fire exposed containers with water spray from a protected location.
 - ▶ If safe to do so, remove containers from path of fire.

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Fire/Explosion Hazard

- Non combustible.
- ▶ Not considered to be a significant fire risk.
- ▶ Expansion or decomposition on heating may lead to violent rupture of containers.
- ▶ Decomposes on heating and may produce toxic fumes of carbon monoxide

(CO). ▶ May emit acrid smoke.

Decomposition may produce toxic fumes of:, carbon dioxide (CO2), nitrogen oxides (NOx), other pyrolysis products typical of burning organic material May emit corrosive fumes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures ▶ Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. • Check regularly for spills and leaks. ▶ Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. **Minor Spills** ▶ Control personal contact with the substance, by using protective equipment. ▶ Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. ▶ Place in a suitable, labelled container for waste disposal. ▶ Clear area of personnel and move upwind. ▶ Alert Fire Brigade and tell them location and nature of hazard. **Major Spills** ▶ Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. ▶ Collect recoverable product into labelled containers for recycling.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

	▶ DO NOT allow clothing wet with material to stay in contact with skin
	▶ Avoid all personal contact, including inhalation.
	▶ Wear protective clothing when risk of exposure occurs.
Cafa han diin n	▶ Use in a well-ventilated area.
Safe handling	▶ Avoid contact with moisture.
	▶ Avoid contact with incompatible materials.
	▶When handling, DO NOT eat, drink or smoke.
	▶ Keep containers securely sealed when not in use.
	▶ Store in original containers.
	▶ Keep containers securely sealed.
	▶ Store in a cool, dry, well-ventilated area.
Other information	▶ Store away from incompatible materials and foodstuff containers.
Other information	▶ Protect containers against physical damage and check regularly for leaks.
	▶ Observe manufacturer's storage and handling recommendations contained within this SDS.
	▶ DO NOT store near acids, or oxidising agents
	▶ No smoking, naked lights, heat or ignition sources.
ditions for safe storage,	including any incompatibilities
	▶ Lined metal can, lined metal pail/ can.
	▶ Plastic pail.
	▶ Polyliner drum.
	▶ Packing as recommended by manufacturer.
	▶ Check all containers are clearly labelled and free from leaks.
	For low viscosity materials
	▶ Drums and jerricans must be of the non-removable head type.
	▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.
Suitable container	For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):
	▶ Removable head packaging; ▶
	Cans with friction closures and ▶
	low pressure tubes and cartridges
	may be used.
	- Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning
	material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not
	incompatible with the plastic.
	▶ Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.
Storage	▶ Avoid contact with copper, aluminium and their alloys. ▶
incompatibility	Avoid reaction with oxidising agents
	Avoid contamination of water, foodstuffs, feed or seed.

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Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	Not Available

EMERGENCY LIMITS

EMERGENCY LIMITS					
Ingredient	Material name TEE		-1	TEEL-2	TEEL-3
sodium hydroxide	Sodium hydroxide	Not A	vailable	Not Available	Not Available
sodium metasilicate, anhydrous	Sodium metasilicate pentahydrate	45 mç	g/m3	45 mg/m3	170 mg/m3
sodium metasilicate, anhydrous	Sodium silicate; (Sodium metasilicate)	18 mg	g/m3	230 mg/m3	230 mg/m3
Ingredient	Original IDLH		Revised IDLH		
alkaline salts.	Not Available		Not Available		
quaternary cocoamine dimethyl sulfate, ethoxylated	Not Available		Not Available		
sodium hydroxide	250 mg/m3		10 mg/m3		
sodium metasilicate, anhydrous	Not Available		Not Available		
Ingredients determined not to be hazardous	Not Available		Not Available		
water	Not Available		Not Available		

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Personal protection











Eye and face protection

▶ Chemical goggles.

- ▶ Full face shield may be required for supplementary but never for primary protection of eyes.
- ▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.

Skin protection

See Hand protection below

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- Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

NOTE:

- ▶ The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ▶ Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- ▶ frequency and duration of contact, ▶ chemical resistance of glove material,
- alove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- ▶ When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- ▶ When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.

Body protection

Hands/feet protection

See Other protection below

Other protection

- Overalls.
- ▶ PVC Apron.
- ▶ PVC protective suit may be required if exposure severe.
- ▶ Eyewash unit
- ▶ Ensure there is ready access to a safety shower.

Thermal hazards

Not Available

Recommended material(s)

Respiratory protection

GLOVE SELECTION INDEX

Material

Type AK-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

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Glove selection is based on a

modified presentation of the:

<i>a</i>	_	"Forsberg Clothing Performance Index".				
BUTYL	С	Damilia d Minimum	Half-Face	Full-F		
NAT+NEOPR+NITRILE	С	Required Minimum Protection Factor	Respirator	Resp		
NATURAL RUBBER	С	up to 10 x ES	AK-AUS P2	_		
NATURAL+NEOPRENE	С	up to 10 x 20	711(710012			
NEOPRENE	С	up to 50 x ES	-	AK-A Class 1 P2		
NEOPRENE/NATURAL	С	up to 100 x ES	-	AK-2		
NITRILE	С	Where the concentration exceeds the	of gas/particulates	in the bre		
NITRILE+PVC	С	The effect(s) of the following "Exposure Standard" (or				
PE	С	generated selection: Degree of protection vari				
PE/EVAL/PE	С	protection Auto Klene Sling Shot	ies with both lace-p	iece and		
PVA	С	varies with Type of filter.				
PVC	С	into:				

CPI

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AK-AUS P2	-	AK-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AK-AUS / Class 1 P2	-
up to 100 x ES	-	AK-2 P2	AK-PAPR-2 P2 ^

reathing zone, approaches or

to account in the computeris required.

d Class of filter; the nature of

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	С

^{*} CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as"feel" or convenience (e.g. disposability), may dictate a choice of gloves which might Chemwatch: **5175-94**Version No: **2.1.1.1**

otherwise be unsuitable following long-term or frequent use. A qualified practitioner

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should be consulted.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Orange coloured liquid with amine odour; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	~1.1
Odour	Fresh	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	13	Decomposition temperature	Not Available
Melting point / freezing point (°C)	~0	Viscosity (cSt)	Not Available
nitial boiling point and boiling range (°C)	~100	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
pper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
ower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.37 @ 20 degC	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 ▶ Unstable in the presence of incompatible materials. ▶ Product is considered stable. ▶ Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological	effects
Inhaled	Not normally a hazard due to non-volatile nature of product Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane.
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	The material can produce chemical burns following direct contact with the skin. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

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	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.		
	Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.		
	There is limited evidence that, skin contact with this product is more like general population.	<u> </u>	
	Prolonged or repeated skin contact may cause degreasing with drying,	cracking and dermatitis following.	
Auto Klene Sling Shot	TOXICITY	IRRITATION	
	Not Available	Not Available	
quaternary cocoamine dimethyl sulfate, ethoxylated	TOXICITY	IRRITATION	
	Not Available	Not Available	
	TOXICITY	IRRITATION	
sodium hydroxide	Oral (rabbit) LD50: 325 mg/kg	Eye (rabbit): 0.05 mg/24h SEVERE	
		Eye (rabbit):1 mg/24h SEVERE	
		Eye (rabbit):1 mg/30s rinsed-SEVERE	
		Skin (rabbit): 500 mg/24h SEVERE	
sodium metasilicate, anhydrous	TOXICITY dermal (rat) LD50: >5000 mg/kg	IRRITATION Skin (human): 250 mg/24h SEVERE	
	Oral (rat) LD50: 600 mg/kgl	Skin (rabbit): 250 mg/24h SEVERE	
	TOXICITY	IRRITATION	
water	[2]		
	Oral (rat) LD50: >90000 mg/kgNot Available	i	
	/alue obtained from Europe ECHA Registered Substances - Acute toxici data extracted from RTECS - Register of Toxic Effect of chemical Subst	ity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified tances	
•	conjunctivitis. The material may cause severe skin irritation after prolonged or repeated production of vesicles, scaling and thickening of the skin. Repeated e	nced inflammation. Repeated or prolonged exposure to irritants may produce ated exposure and may produce on contact skin redness, swelling, the xposures may produce severe ulceration. xposure to the material ceases. This may be due to a non-allergenic condition.	
SODIUM HYDROXIDE	known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. K criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. Industrial bronchitis, on the other hand, is a disorder that occurs as result of exposure due to high concentrations of irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		
SODIUM METASILICATE, ANHYDROU	The material may cause severe skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. Repeated exposures may produce severe ulceration. Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high about printing compound. Known as reactive airways dysfunction syndrome (RADS) which can occur following approach to high printing compound. Known as reactive airways dysfunction of exposure to the irritating substance (often particulate in nature) and is completely reversible after exposure ceases. The disorder is characterised by dyspnea, cough and mucus production.		

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QUATERNARY COCOAMINE DIMETHYL SULFATE, ETHOXYLATED & WATER	No significant acute toxicological data identified in literature search.		
Acute Toxicity		Carcinogenicity	
Skin Irritation/Corrosion	*	Reproductivity	
Serious Eye Damage/Irritation	,	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity		Aspiration Hazard	
		Legend: X	- Data available but does not fill the criteria for

egend:

Data available but does not fill the criteria for classification

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- Data required to make classification available
- Data Not Available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
sodium hydroxide	EC50	384	Crustacea	27901.643mg/L	3
sodium hydroxide	EC50	96	Algae or other aquatic plants	1034.10043mg/L	3
sodium hydroxide	LC50	96	Fish	4.16158mg/L	3
sodium hydroxide	NOEC	96	Fish	56mg/L	4
sodium hydroxide	EC50	48	Crustacea	40.4mg/L	2
sodium metasilicate, anhydrous	EC50	96	Crustacea	160mg/L	1
sodium metasilicate, anhydrous	LC50	96	Fish	180mg/L	1
sodium metasilicate, anhydrous	EC50	48	Crustacea	1700mg/L	2
sodium metasilicate, anhydrous	EC50	72	Algae or other aquatic plants	207mg/L	2
water	EC50	384	Crustacea	199.179mg/L	3
water	EC50	96	Algae or other aquatic plants	8768.874mg/L	3
water	LC50	96	Fish	897.520mg/L	3
Legend:	V3.12 -		ECHA Registered Substances - Ecotoxico otox database - Aquatic Toxicity Data 5. E		,

(Japan) Rioconcentration Data 7 M

Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

Surfactants are in general toxic to aquatic organisms due to their surface-active properties. Historically, synthetic surfactants were often composed of branched alkyl chains resulting in poor biodegradability which led to concerns about their environmental effects. Today however, many of them, for example those used in large amounts, glbally, as detergents, are linear and therefore

readily biodegradable7and considered to be of rather low risk to the environment. A linear structure of the hydrophobic chain facilitates the approach of microorganism while branching, in

particular at the terminal position, inhibits biodegradation. Also, the bioaccumulation potential of surfactants is usually low due to the hydrophilic units. Linear surfactants are not always preferred however, as some branching (that ideally does not hinder ready biodegradability) is often preferable from a performance point of view. The reduction in waste water of organic contaminants such as

surfactants can either be a consequence of adsorption onto sludge or aerobic biodegradation in the biological step.

for Quaternary Ammonium Compounds (QAC's): QAC's are white, crystalline powders. Low molecular weight QACs are very soluble in water, but slightly or not at all soluble in solvents such as ether, petrol and benzene. As the molecular weight and chain lengths increases, the solubility in polar solvents (e.g. water) decreases and the solubility in non-polar solvents increases.

Environmental Fate: A major part of the QACs is discharged into wastewater and removed in the biological processes of sewage treatment, however; the aerobic and anaerobic biodegradability of QACs is not well investigated. Only sparse data are available concerning stability, solubility and biodegradability. In general, it seems that the biodegradability decreases with increasing numbers of alkyl chains. Within each category the biodegradability seems inversely proportional to the alkyl chain length.

Prevent, by any means available, spillage from entering drains or water

courses. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air

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sodium hydroxide	LOW	LOW
water	LOW	LOW
Bioaccumulative potential		
Ingredient	Bioaccumulation	
sodium hydroxide	LOW (LogKOW = -3.8796)	
water	LOW (LogKOW = -1.38)	

Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)
water	LOW (KOC = 14.3)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- A Hierarchy of Controls seems to be common the user should investigate:

 Reduction
- Reuse
- Recycling
- Product / Packaging disposal
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- $\mbox{\ensuremath{\,^{\blacktriangleright}}}$ It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- ▶ Where in doubt contact the responsible authority.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Treat and neutralise at an approved treatment plant.
- Treatment should involve: Neutralisation with suitable dilute acid followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

Labels Required



Marine Pollutant



	· ·
HAZCHEM	2R
Land transport (ADG)	
UN number	1719
Packing group	III
UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (contains sodium hydroxide)
Environmental hazard	Not Applicable
Transport hazard class(es)	Class 8 Subrisk Not Applicable
Special precautions for user	Special provisions 223 274 Limited quantity 5 L

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Air transport (ICAO-IATA / DGR)

UN number	1719		
Packing group	III		
UN proper shipping name	Caustic alkali liquid, n.o.s. * (contains sodium hydroxide)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	ICAO/IATA Class 8 ICAO / IATA Subrisk Not Applicable ERG Code 8L		
Special precautions for user	Special provisions Cargo Only Packing Instructions 856 Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions 852 Passenger and Cargo Maximum Qty / Pack 5 L Passenger and Cargo Limited Quantity Packing Instructions Y841 Passenger and Cargo Limited Maximum Qty / Pack 1 L		
Sea transport (IMDG-Code /	/ GGVSee)		
UN number	1719		
Packing group	III		
UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (contains sodium hydroxide)		
Environmental hazard	Marine Pollutant		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk Not Applicable		
Special precautions for user	EMS Number F-A, S-B Special provisions 223 274 Limited Quantities 5 L		

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Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

QUATERNARY COCOAMINE DIMETHYL SULFATE, ETHOXYLATED(68989-03-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

SODIUM HYDROXIDE(1310-73-2) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Inventory of Chemical Substances (AICS)

Print Date: 06/04/2016

Australia Hazardous Substances Information System - Consolidated Lists

SODIUM METASILICATE, ANHYDROUS(6834-92-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

WATER(7732-18-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (quaternary cocoamine dimethyl sulfate, ethoxylated; water; sodium metasilicate, anhydrous; sodium hydroxide)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (quaternary cocoamine dimethyl sulfate, ethoxylated)
Japan - ENCS	N (quaternary cocoamine dimethyl sulfate, ethoxylated; water)
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	N (quaternary cocoamine dimethyl sulfate, ethoxylated)
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

-9. out-on-out-out-out-out-out-out-out-out-out-out	
Name	CAS No
quaternary cocoamine dimethyl sulfate, ethoxylated	197664-72-5, 307315-38-4, 68989-03-7
sodium hydroxide	12200-64-5, 1310-73-2

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.