S.GHS.AUS.EN

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

Product Identifier	
Product name	Extracta LF
Synonyms	Not Available
Other means of identification	4405
Relevant identified uses of th	e substance or mixture and uses advised against
Relevant identified uses	Carpet Upholstery Cleaning liquid removes grease, oil, and dust soilings as well as traffic film of all textile coverings.
Details of the supplier of the	safety data sheet
Registered company name	Auto Klene Solutions
Address	1/83 Merrindale Drive VIC Croydon 3136 Australia
Telephone	+61 3 8761 1900
Fax	+61 3 8761 1955
Website	https://www.autoklene.com/msds/
Email	Not Available
Emergency telephone number	at and a second s
Association / Organisation	Not Available
Emergency telephone numbers	131 126 (Poisons Information Centre)
Other emergency telephone numbers	0408 406 968 (Mark Adams mobile)
<b>SECTION 2 HAZARDS ID</b>	ENTIFICATION

Classification of the substance or mixture

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

## CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	1		0 = Minimum
Body Contact	2		1 = Low
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	S5
[1] Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Acute Aquatic Hazard Category 3, Chronic Aquatic Hazard Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
Label elements	
GHS label elements	
SIGNAL WORD	WARNING
Hazard statement(s)	
H315	Causes skin irritation.

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H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s) Prevention	
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement(s) Response	
P362	Take off contaminated clothing and wash before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
Precautionary statement(s) S	Storage
Not Applicable	

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

CAS No	%[weight]	Name	
7601-54-9	<10	trisodium phosphate	
9002-92-0	<10	lauryl alcohol, ethoxylated	
111-76-2	<5	ethylene glycol monobutyl ether	
7732-18-5	>60	water	

### SECTION 4 FIRST AID MEASURES

Description of first aid measured	ures
Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area. If Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to ethylene glycol:

- . Early treatment of ingestion is important. Ensure emesis is satisfactory.
- Test and correct for metabolic acidosis and hypocalcaemia.
- Apply sustained diuresis when possible with hypertonic mannitol.
- Evaluate renal status and begin haemodialysis if indicated. [I.L.O]
- Rapid absorption is an indication that emesis or lavage is effective only in the first few hours. Cathartics and charcoal are generally not effective.
- Correct acidosis, fluid/electrolyte balance and respiratory depression in the usual manner. Systemic acidosis (below 7.2) can be treated with intravenous sodium bicarbonate solution.
- + Ethanol therapy prolongs the half-life of ethylene glycol and reduces the formation of toxic metabolites.
- Pyridoxine and thiamine are cofactors for ethylene glycol metabolism and should be given (50 to 100 mg respectively) intramuscularly, four times per day for 2 days.

• Magnesium is also a cofactor and should be replenished. The status of 4-methylpyrazole, in the treatment regime, is still uncertain. For clearance of the material and its metabolites, haemodialysis is much superior to peritoneal dialysis.

## [Ellenhorn and Barceloux: Medical Toxicology]

It has been suggested that there is a need for establishing a new biological exposure limit before a workshift that is clearly below 100 mmol ethoxy-acetic acids per mole creatinine in morning urine of people occupationally exposed to ethylene glycol ethers. This arises from the finding that an increase in urinary stones may be associated with such exposures. Laitinen J., et al: Occupational & Environmental Medicine 1996; 53, 595-600

## **SECTION 5 FIREFIGHTING MEASURES**

### Extinguishing media

The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.

Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of

combustible substances. In such an event consider: + foam.

+ dry chemical powder. +

carbon dioxide.

## Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.					
Advice for firefighters						
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>					
Fire/Explosion Hazard	<ul> <li>The material is not readily combustible under normal conditions.</li> <li>However, it will break down under fire conditions and the organic component may burn.</li> <li>Not considered to be a significant fire risk.</li> <li>Heat may cause expansion or decomposition with violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> </ul>					
SECTION 6 ACCIDENTAL	RELEASE MEASURES					

#### CTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

i ersonar precautions, protec	tive equipment and emergency procedures
Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Moderate hazard. • Clear area of personnel and move upwind. • Alert Fire Brigade and tell them location and nature of hazard. • Wear breathing apparatus plus protective gloves. • 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.
Personal Protective Equipment	advice is contained in Section 8 of the SDS.

### SECTION 7 HANDLING AND STORAGE

Precautions for safe handling			
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>		
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>		

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## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed.
CECTION & EVROCURE C	

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethylene glycol monobutyl ether	2-Butoxyethanol	96.9mg/m3 / 20 ppm	242 mg/m3 / 50 ppm	Not Available	Sk

#### EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
trisodium phosphate	Sodium phosphate, tribasic; (Trisodium phosphate)		5 mg/m3	250 mg/m3	1500 mg/m3
lauryl alcohol, ethoxylated	Brij-35; (alpha-Dodecyl-omega-hydroxypoly(oxyethylene))		1 mg/m3	11 mg/m3	200 mg/m3
ethylene glycol monobutyl ether	Butoxyethanol, 2-; (Glycol ether EB)	20 ppm 20 ppm 700 p			700 ppm
Ingredient	Original IDLH	Revised IDLH			
trisodium phosphate	Not Available	Not Available			
lauryl alcohol, ethoxylated	Not Available	Not Available			
ethylene glycol monobutyl ether	700 ppm	700 [Unch] ppm			
water	Not Available Not Available				
Exposure controls	·				

Appropriate 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	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>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.</li> <li>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.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:</li> <li>) frequency and duration of contact, )</li> <li>chemical resistance of glove material,</li> <li>) glove thickness and</li> <li>) dexterity</li> <li>Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>) 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.</li> <li>) 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.</li> </ul>

Body protection See Other protection below

	▶ Overalls.	
	▶ P.V.C. apron.	
Other protection	▶ Barrier cream.	
	Skin cleansing cream.	
	▶ Eye wash unit.	
Thermal hazards	Not Available	
Recommended material(s)		Respiratory protection
GLOVE SELECTION INDEX		Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI
Clove colection is based on a n	addition presentation of the	Z88 or national equivalent)
"Eorsberg Clothing Perform	ance Index"	
Torsberg Clothing Ferroring		Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the
The effect(s) of the following se	ubstance(s) are taken into account in the computer-	· · · · · · · · · · · · · · · · · · ·
		"Exposure Standard" (or ES), respiratory protection is required.
generated selection:		
Extra stall Excertise with Type of	£ 614	Degree of protection varies with both face-piece and Class of filter; the nature of protection
Extracta LF varies with Type o	i ilitei.	

PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
VITON	С

		50+ x ES		-	Air-line**
Material	Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator	
UTYL			•		
AT+NEOPR+NITRILE	up to 5 x ES	1 P2	-	Class 1 P2	D /
TURAL RUBBER	up to 25 x ES	Air-line*	A-2 P2	A-PAPR-2 P2	2
OPRENE	up to 50 x ES	-	A-3 P2	-	

^ - 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)

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

should be consulted.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

Appearance	Pale straw with slight blue fluroesence liquid with Lemon Zest scent; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.054
Odour	Lemon	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	~12.2	Decomposition temperature	Not Available
Melting point / freezing point (°C)	~0	Viscosity (cSt)	Not Available
Initial 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
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2 @ 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
OFOTION 40 OTADU ITV			

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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 Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headach dizziness, slowing of reflexes, fatigue and inco-ordination.	ne and
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion may result in nausea, abdominal irritation, pain and vomiting	
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition One of the mechanisms of skin irritation caused by surfactants is considered to be denaturation of the proteins of skin. It has also been es that there is a connection between the potential of surfactants to denature protein in vitro and their effect on the skin. Nonionic surfactants carry any net charge and, therefore, they can only form hydrophobic bonds with proteins. For this reason, proteins are not deactivated by surfactants, and proteins with poor solubility are not solubilized by nonionic surfactants 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 th prior to the use	stablished s do not nonionic he skin
	of the material and ensure that any external damage is suitably protected.	

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Eye	This material can cause eye irritation and damage in some per- Non-ionic surfactants can cause numbing of the cornea, which Irritation varies depending on the duration of contact, the nature	sons. masks discomfort normally caused by other agents and leads to corneal injury. e and concentration of the surfactant.
Chronic	Substance accumulation, in the human body, may occur and m There is some evidence from animal testing that exposure to th There has been some concern that this material can cause car	ay cause some concern following repeated or long-term occupational exposure. is material may result in toxic effects to the unborn baby. cer or mutations but there is not enough data to make an assessment.
	τοχιςιτγ	IRRITATION
Auto Klene Extraction		
Liquid	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
tricadium	dormal (rat)   DE0: > 2000 mg/l	- moderate*
phosphate	Oral (rat) LD50: 7.4 gm/ K <sup>[1]</sup>	*[CCINFO - Monsanto
		Eye (rabbit):(FSHA) Corrosive*
		scale of 8.0
		Skin (rabbit):(FSHA) 3.3 on a
	ΤΟΧΙΟΙΤΥ	IRRITATION
lauryl alcohol, ethoxylated	Dermal (rabbit) LD50: >2000 mg/kgg	Eye (rabbit): 0.75 mg/24h SEVERE
	Oral (rat) LD50: 1000 mg/kg <sup>[2]</sup>	Eye (rabbit): 100 mg
		Skin (rabbit): 500 mg/24h mild
		Skin (rabbit): 75 mg/24h mild
ethylene glycol monobutyl ether	TOXICITY           dermal (rat) LD50: >2000 mg/kg           Inhalation (rat) LC50: 450 ppm/41           Oral (rat) LD50: 250 mg/kg	IRRITATION         * [Union Carbide]         Eye (rabbit): 100 mg SEVERE         Eve (rabbit): 100 mg/24h-moderate
		Skin (rabbit): 500 mg, open; mild
	τοχιζιτγ	IRRITATION
water	[2]	
Legend:	Oral (rat) LD50: >90000 mg/kgNot Available	ute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified
	data extracted from RTECS - Register of Toxic Effect of chemic	cal Substances
TRISODIUM PHOSPHATE	Asthma-like symptoms may continue for months or even years a known as reactive airways dysfunction syndrome (RADS) which for the diagnosis of RADS include the absence of preceding respiratory disease, in minutes to hours of a documented exposure to the irritant. A reve bronchial hyperreactivity on methacholine challenge testing and t included in the criteria for diagnosis of RADS. RADS (or asthma) concentration of and duration of exposure to the irritating substan exposure due to high concentrations of irritating substance (often disorder is characterised by dyspnea, cough and mucus producti	after exposure to the material ceases. This may be due to a non-allergenic condition can occur following exposure to high levels of highly irritating compound. Key critering a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within rsible airflow pattern, on spirometry, with the presence of moderate to severe he lack of minimal lymphocytic inflammation, without eosinophilia, have also been following an irritating inhalation is an infrequent disorder with rates related to the ce. Industrial bronchitis, on the other hand, is a disorder that occurs as result of particulate in nature) and is completely reversible after exposure ceases. The on.
LAURYL ALCOHOL, ETHOXYLATED	Asthma-like symptoms may continue for months or even years is known as reactive airways dysfunction syndrome (RADS) which for the diagnosis of RADS include the absence of preceding respiratory disease, in minutes to hours of a documented exposure to the irritant. A reverse bronchial hyperreactivity on methacholine challenge testing and the included in the criteria for diagnosis of RADS. RADS (or asthma) concentration of and duration of exposure to the irritating substance (often disorder is characterised by dyspnea, cough and mucus productie ethoxylates (AEs) causing genetic damage, mutations or cancer. The material may produce severe irritation to the eye causing proconjunctivitis. The material may cause skin irritation after prolonged or repeated vesicles, scaling and thickening of the skin.	after exposure to the material ceases. This may be due to a non-allergenic condition can occur following exposure to high levels of highly irritating compound. Key criteri a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within rsible airflow pattern, on spirometry, with the presence of moderate to severe he lack of minimal lymphocytic inflammation, without eosinophilia, have also been following an irritating inhalation is an infrequent disorder with rates related to the ce. Industrial bronchitis, on the other hand, is a disorder that occurs as result of particulate in nature) and is completely reversible after exposure ceases. The on. Both laboratory and animal testing has shown that there is no evidence for alcohe No adverse reproductive or developmental effects were observed. mounced inflammation. Repeated or prolonged exposure to irritants may produce at exposure and may produce on contact skin redness, swelling, the production of

ETHYLENE GLYCOL MONOBUTYL ETHER	I ne material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause 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. For ethylene glycol monoalkyl ethers and their acetates (EGMAEs): Typical members of this category are ethylene glycol propylene ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE); and their acetates. EGMAEs are substrates for alcohol dehydrogenase isozyme ADH-3, which catalyzes the conversion of their terminal alcohols to aldehydes (which are transient metabolites). Further, rapid conversion of the aldehydes by aldehyde dehydrogenase produces alkoxyacetic acids, which are the predominant urinary metabolites of mono substituted glycol ethers. <b>Acute Toxicity:</b> Oral LD50 values in rats for all category members range from 739 (EGHE) to 3089 mg/kg bw (EGPE), with values increasing with decreasing molecular weight. Four to six hour acute inhalation toxicity studies were conducted for these chemicals in rats at the highest vapour concentrations practically.					
	achievable. Values range from LC0 > 85 ppm (508 mg/m for EGPE. No lethality was observed for any of these ma Exposure of pregnant rats to ethylene glycol monobutyl e maternal toxicity and embryotoxicity including a decrease unossified skeletal elements was also apparent in rats. T At least one researcher has stated that the reproductive Chronic exposure may cause anaemia, macrocytosis, ab Exposure of male and female rats and mice for 14 week haemopoietic system in rats and mice. In addition, 2-bu lesions (1). For ethylene glycol: Ethylene glycol is quickly and extensively absorbed throu respiratory tract; dermal absorption is apparently slow. F water. In most mammalian species, including humans, ethylene gl dehydrogenase to form glycolaldehyde, which is rapidly These metabolites are oxidised to glyoxylate; glyoxylate and formic acid can generate CO2, which is one of the m NOTE: Changes in kidney, liver, spleen and lungs are of	13) for EGHE, LC50 > 400ppm (2620 mg/ iterials under these conditions. ether (2-butoxyethanol) at 100 ppm or rab ed number of viable implantations per litte "eratogenic effects were not observed in c effects were less than that of other mono- pnormally large red cells and abnormal re- ks to 2 years produced a regenerative ha toxyethanol exposures caused increases ugh the gastrointestinal tract. Limited infor ollowing absorption, ethylene glycol is dis lycol is initially metabolised by alcohol. converted to glycolic acid and glyoxal by a may be further metabolised to formic acid najor elimination products of ethylene glyco paerved in animals exposed to high conce	m3) for EGBEA to LC50 > 2132 ppm (9061 mg/m3) bits at 200 ppm during organogenesis resulted in r. Slight foetoxicity in the form of poorly ossified or other species. alkyl ethers of ethylene glycol. d cell fragility. aemolytic anaemia and subsequent effects on the in the incidence of neoplasms and nonneoplastic rmation suggests that it is also absorbed through the tributed throughout the body according to total body aldehyde oxidase and aldehyde dehydrogenase. I, oxalic acid, and glycine. Breakdown of both glycine iol.			
MATER	(NZ) SDS	uro operah				
WATER	no significant acute toxicological data identified in literat					
Acute Toxicity	0	Carcinogenicity				
Skin Irritation/Corrosion	<b>~</b>	Reproductivity				
Serious Eye Damage/Irritation	•	STOT - Single Exposure	0			
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0			
Mutagenicity	0	Aspiration Hazard	0			
		Legend: 🗙	<ul> <li>Data available but does not fill the criteria for classification</li> </ul>			

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
trisodium phosphate	LC50	96	Fish	28.5mg/L	4
trisodium phosphate	EC50	48	Crustacea	>100mg/L	2
trisodium phosphate	EC50	48	Algae or other aquatic plants	300mg/L	2
trisodium phosphate	EC50	72	Algae or other aquatic plants	>100mg/L	2
trisodium phosphate	NOEC	72	Algae or other aquatic plants	>100mg/L	2
lauryl alcohol, ethoxylated	BCF	72	Fish	1mg/L	4
lauryl alcohol, ethoxylated	LC50	96	Fish	1.5mg/L	4
lauryl alcohol, ethoxylated	EC50	504	Crustacea	0.46mg/L	5
lauryl alcohol, ethoxylated	NOEC	504	Crustacea	0.24mg/L	5
lauryl alcohol, ethoxylated	EC50	72	Algae or other aquatic plants	2.05963mg/L	2
ethylene glycol monobutyl ether	EC50	384	Crustacea	51.539mg/L	3
ethylene glycol monobutyl ether	LC50	96	Fish	222.042mg/L	3
ethylene glycol monobutyl ether	EC50	48	Crustacea	164mg/L	2

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ethylene glycol monobutyl ether	NOEC	168	Crustacea	56mg/L	2	
ethylene glycol monobutyl ether	EC50	96	Algae or other aquatic plants	720mg/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:	Extracted from 1. IUCL V3.12 - Aquatic Toxicity Data ( (Japan) -	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - 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

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

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
trisodium phosphate	HIGH	HIGH	
lauryl alcohol, ethoxylated	LOW	LOW	
ethylene glycol monobutyl ether	LOW (Half-life = 56 days)	LOW (Half-life = 1.37 days)	
water	LOW	LOW	
Bioaccumulative potential			
Ingredient	Bioaccumulation		
trisodium phosphate	LOW (LogKOW = -0.7699)		
lauryl alcohol, ethoxylated	LOW (LogKOW = 3.6722)		
ethylene glycol monobutyl ether	LOW (BCF = 2.51)		
water	LOW (LogKOW = -1.38)		
Mobility in soil			
Ingredient	Mobility		
trisodium phosphate	HIGH (KOC = 1)		
lauryl alcohol, ethoxylated	LOW (KOC = 10)		
ethylene glycol monobutyl ether	HIGH (KOC = 1)		
water	LOW (KOC = 14.3)		
SECTION 13 DISPOSAL	CONSIDERATIONS		

Waste treatment methods

waste treatment methous	
Product / Packaging disposal	<ul> <li>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction •</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>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.</li> <li>Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li><b>&gt; Do NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>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.</li> <li>Recycle wherever possible.</li> <li>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.</li> <li>Dispose of 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).</li> <li>Decontaminate empty containers. Observe all label safequards until containers are cleaned and destroyed</li> </ul>

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**SECTION 14 TRANSPORT INFORMATION** 

Labels Required				
Marine Pollutant	NO			
HAZCHEM	Not Applicable			
Land transport (ADG): NOT R	EGULATED FOR TRANSPORT OF DANGEROUS G	OODS		
Air transport (ICAO-IATA / DO	GR): NOT REGULATED FOR TRANSPORT OF DANG	GEROUS GOODS		
Sea transport (IMDG-Code / C	GVSee): NOT REGULATED FOR TRANSPORT OF	DANGEROUS GOODS		
Transport in bulk according t Not Applicable	o Annex II of MARPOL and the IBC code			
SECTION 15 REGULATORY INFORMATION				
Safety, health and environme	ental regulations / legislation specific for the substa	ance or mixture		
TRISODIUM PHOSPHATE(760	1-54-9) IS FOUND ON THE FOLLOWING REGULATORY	/ LISTS		
Australia Inventory of Chemical Substances (AICS)				
LAURYL ALCOHOL, ETHOXYLATED(9002-92-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS				
Australia Inventory of Chemical Substances (AICS)				
ETHYLENE GLYCOL MONOBL	ITYL FTHER(111-76-2) IS FOLIND ON THE FOLLOWING	REGULATORY LISTS		
Australia Exposure Standards		Australia Inventory of Chemical Substances (AICS)		
Australia Hazardous Substances	Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		

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

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Australia Inventory of Chemical Substances (AICS)

National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
Canada - NDSL	N (lauryl alcohol, ethoxylated; trisodium phosphate; water; ethylene glycol monobutyl ether)	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Υ	
Japan - ENCS	N (lauryl alcohol, ethoxylated; trisodium phosphate; water)	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
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

Name	CAS No
trisodium phosphate	7601-54-9, 96337-98-3
lauryl alcohol, ethoxylated	12789-47-8, 9002-92-0

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.

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