# Citrogel Auto Klene Solutions

Chemwatch Hazard Alert Code: 1

Chernwatch: 5371-33 Version No: 5.1.1.1 Safety Data Sheet according to WHS and ADG requirements lssue Date: 01/11/2019 Print Date: 01/02/2021 S.GHS.AUS.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier		
Product name	Citrogel	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

### Relevant identified uses of the substance or mixture and uses advised against

	Hand cleaner.
Relevant identified uses	SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.
	Use according to manufacturer's directions.

# Details of the supplier of the safety data sheet

Registered company name	Auto Klene Solutions	
Address	/83 Merrindale Drive Croydon VIC 3136 Australia	
Telephone	+61 3 8761 1900	
Fax	+61 3 8761 1955	
Website	http://www.autoklene.com/msds/	
Email	Not Available	

#### Emergency telephone number

Association / Organisation	Auto Klene Solutions
Emergency telephone numbers	131 126 (Poisons Information Centre)
Other emergency telephone numbers	0800 764 766 (New Zealand Poisons Information Centre)

# **SECTION 2 Hazards identification**

### 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	1 📃		
Toxicity	1 📃	0 = Mi	nimum
Body Contact	1 📕	1 = Lo	W
Reactivity	1 📃	2 = Mc	
Chronic	0	3 = Hi 4 = Ex	

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Specific target organ toxicity - single exposure Category 3 (narcotic effects)	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

Label elements

Hazard pictogram(s)	
Signal word	Warning
Hazard statement(s)	

H336 May cause drowsiness or dizziness.

AUH066 Repeated exposure may cause skin dryness and cracking. Precautionary statement(s) Prevention P271 Use only outdoors or in a well-ventilated area. P261 Avoid breathing mist/vapours/spray. Precautionary statement(s) Response P312 Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Precautionary statement(s) Storage P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
Not Available		solvent D60, as
64742-47-8.	<60	C14-20 aliphatics (<=2% aromatics)
112-80-1	<5	oleic acid
68439-50-9	<5	alcohols C12-14 ethoxylated
8006-54-0	<5	lanolin
102-71-6	<5	triethanolamine
57-55-6	<5	propylene glycol
93924-19-7	<10	cenospheres. hollow ceramic microspheres
Not Available	balance	Ingredients determined not to be hazardous

#### **SECTION 4 First aid measures**

#### Description of first aid measures

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	<ul> <li>Concentrate and diluted solution is readily removed with water.</li> <li>Abraded or broken skin should be washed carefully and thoroughly.</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>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.</li> <li>Transport to hospital, or doctor.</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 petroleum distillates

In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption - decontamination (induced emesis or lavage) is controversial and should be considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration.

- Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.
- Positive pressure ventilation may be necessary.
- Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.

After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.

Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.

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Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur.Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.
BP America Product Safety & Toxicology Department

# **SECTION 5 Firefighting measures**

### Extinguishing media

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

# 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			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent 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>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>May emit acrid smoke.</li> <li>Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>		
HAZCHEM	Not Applicable		

### **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <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.  No smoking, naked lights or ignition sources.  Increase ventilation.

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

# **SECTION 7 Handling and storage**

Precautions	for	safe	handling
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Precautions for safe handling	
Safe handling	<ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</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> </ul>

Continued...

# Citrogel

Observe manufacturer's storage and handling recommendations contained within this SDS.

# Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Poly bottle / drum.</li> <li>Metal can or drum</li> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

# **SECTION 8 Exposure controls / personal protection**

Not Available

### **Control parameters**

# Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	C14-20 aliphatics (<=2% aromatics)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	triethanolamine	Triethanolamine	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol total: (vapour & particulates)	150 ppm / 474 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	propylene glycol	Propane-1,2-diol: particulates only	10 mg/m3	Not Available	Not Available	Not Available

### Emergency Limits

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
C14-20 aliphatics (<=2% aromatics)	Petroleum distillates; petroleum ether; includes clay-treated light naphthenic [64742-45-6]; low boiling [68477-31-6]; petroleum extracts [64742-06-9]; petroleum base oil [64742-46-7]; petroleum 50 thinner, petroleum spirits [64475-85-0], Soltrol, VM&P naphtha [8032-32-4]; Ligroine, and paint solvent; petroleum paraffins C5-C20 [64771-72-8]; hydrotreated light naphthenic [64742-53-6]; solvent refined light naphthenic [64741-97-5]; and machine coolant 1		1,100 mg/m3	1,800 mg/m3	40,000 mg/m3
oleic acid	Octadecenoic acid, 9-; (Oleic acid)		220 mg/m3	2,400 mg/m3	15,000 mg/m3
triethanolamine	Triethanolamine; (Trihydroxytriethylamine)		15 mg/m3	240 mg/m3	1,500 mg/m3
propylene glycol	Polypropylene glycols		30 mg/m3	330 mg/m3	2,000 mg/m3
propylene glycol	Propylene glycol; (1,2-Propanediol)		30 mg/m3	1,300 mg/m3	7,900 mg/m3
Ingredient	Original IDLH	Revised IDLH			
C14-20 aliphatics (<=2% aromatics)	2,500 mg/m3	Not Available			
oleic acid	Not Available Not Available				
alcohols C12-14 ethoxylated	Not Available Not Available				
lanolin	Not Available	Not Available			

propylene glycol	Not Available	Not Available
cenospheres, hollow ceramic microspheres	Not Available	Not Available
Occupational Exposure Banding		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
alcohols C12-14 ethoxylated	E	≤ 0.1 ppm
cenospheres, hollow ceramic	E	≤ 0.01 mg/m³

 microspheres
 Countigration

 Notes:
 Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.

Not Available

### Exposure controls

lanolin triethanolamine

Expectate controle	
Appropriate engineering controls	None required when handling small quantities. <b>OTHERWISE:</b> 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.

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Personal protection	
Eye and face protection	<ul> <li>No special equipment for minor exposure i.e. when handling small quantities.</li> <li>OTHERWISE:</li> <li>Safety glasses with side shields.</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	No special equipment needed when handling small quantities. OTHERWISE: Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. <b>OTHERWISE:</b> • Overalls. • Barrier cream. • Eyewash unit.

### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection: Citrogel

Material	СРІ
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
PE/EVAL/PE	С
PVA	С
PVC	С

# **Respiratory protection**

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

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

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 ^

### ^ - 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

# Information on basic physical and chemical properties

Appearance	Yellow scented paste; mixes with water.		
Physical state	Non Slump Paste	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	7-8	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	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	<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

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Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness. Low molecular weight (C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite loss, drowsiness, tremors and stupor. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. Inhaliation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.		
Ingestion	Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, slow and shallow breathing, abdominal swelling, unconsciousness and convulsions.		
Skin Contact	Not considered an irritant through normal use. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Open cuts, abraded or irritated skin should not be exposed to this material The liquid may be able to be mixed with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives. The material may accentuate any pre-existing dermatitis condition		
Eye	Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species can cause irritation and excessive tear secretion. There is some evidence to suggest that this material can cause eye irritation and damage in some persons.		
Chronic	Prolonged or repeated skin contact may cause drying with cracking, irrita Substance accumulation, in the human body, may occur and may cause Constant or exposure over long periods to mixed hydrocarbons may proo and anaemia, and reduced liver and kidney function. Skin exposure may	some concern following repeated or long-term occupational exposure. duce stupor with dizziness, weakness and visual disturbance, weight loss	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Citrogel	Not Available	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye : Not irritating (OECD 405) *	
C14-20 aliphatics (<=2% aromatics)	Inhalation(Rat) LC50; =4.6 mg/l4hrs <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
aronaticsy	Oral(Rat) LD50; =7400 mg/kg <sup>[2]</sup>	Skin : Not irritating (OECD 404)*	
		Skin: adverse effect observed (irritating) <sup>[1]</sup>	
	тохісіту	IRRITATION	
oleic acid	Oral(Rat) LD50; 25000 mg/kg <sup>[2]</sup>	Skin (human):15 mg/3d-I- moderate	
		Skin (rabbit):500 mg mild	
	ΤΟΧΙΟΙΤΥ	IRRITATION	

alcohols C12-14 ethoxylated

dermal (rat) LD50: >=2000 mg/kg<sup>[1]</sup>

Oral(Rat) LD50; >2000 mg/kg<sup>[1]</sup>

Eye (rabbit): irritant \*

Skin: no adverse effect observed (not irritating)  $\left[ 1 \right]$ 

Eye: no adverse effect observed (not irritating)<sup>[1]</sup>

lanolin	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Oral(Rat) LD50; >5000 mg/kg <sup>[2]</sup>	Not Available	
	тохісіту	IRRITATION	
	dermal (rat) LD50: >0.002 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.1 ml -	
	Oral(Rat) LD50; 0.007 mg/kg <sup>[2]</sup> Eye (rabbit): 10 mg - mild		
		Eye (rabbit): 5.62 mg - SEVERE	
triethanolamine		minor conjunctival irritation	
		no irritation *	
		Skin (human): 15 mg/3d (int)-mild	
		Skin (rabbit): 4 h occluded	
		Skin (rabbit): 560 mg/24 hr- mild	
	τοχιςιτγ	IRRITATION	
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye (rabbit): 100 mg - mild	
	Inhalation(Rat) LC50; >44.9 mg/L4hrs <sup>[2]</sup>	Eye (rabbit): 500 mg/24h - mild	
propylene glycol	Oral(Rat) LD50; 0.02 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>	
propylene grycor	Urai(Rat) LD50; 0.02 mg/kg		
		Skin(human):104 mg/3d Intermit Mod	
		Skin(human):500 mg/7days mild	
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>	
cenospheres, hollow ceramic	ΤΟΧΙΟΙΤΥ	IRRITATION	
microspheres	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substanc specified data extracted from RTECS - Register of Toxic Ef	es - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise fect of chemical Substances	
C14-20 ALIPHATICS (<=2% AROMATICS)	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver. *Exxsol D 100 SDS		
OLEIC ACID	Polyunsaturated fats (PUFAs) protect against heart disease by providing more membrane fluidity than monounsaturated fats (MUFAs), but they are more vulnerable to being oxidized and therefore rancid. Foods containing monounsaturated fats reduce low-density lipoprotein (LDL) cholesterol, while possibly increasing high-density lipoprotein (HDL) cholesterol. Levels of oleic, and other monounsaturated fatty acids in red blood cell membranes were positively associated with breast cancer risk. In children, consumption of monounsaturated oils is associated with healthier blood lipid profiles. The diet in Mediterranean countries consists of more total fat than the diets of Northern European countries, but most of the fat is made up of monounsaturated fatty acids from olive oil and omega-3 fatty acids (PUFAs) from fish and vegetables, and very little saturated fat. The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.		
ALCOHOLS C12-14 ETHOXYLATED	Humans have regular contact with alcohol ethoxylates through a variety of industrial and consumer products such as soaps, detergents and other cleaning products. Exposure to these chemicals can occur through swallowing, inhalation, or contact with the skin or eyes. Studies of acute toxicity show that relatively high volumes would have to occur to produce any toxic response. No death due to poisoning with alcohol ethoxylates has ever been reported. Studies show that alcohol ethoxylates have low toxicity through swallowing and skin contact. Animal studies show these chemicals may produce gastrointestinal irritation, stomach ulcers, hair standing up, diarrhea and lethargy. Slight to severe irritation occurred when undiluted alcohol ethyoxylates were applied to the skin and eyes of animals. These chemicals show no indication of genetic toxicity or potential to cause mutations and cancers. Both laboratory and animal testing has shown that there is no evidence for alcohol ethoxylates (AEs) causing genetic damage, mutations or cancer. No adverse reproductive or developmental effects were observed. Tri-ethylene glycol ethers undergo enzymatic oxidation to toxic alkoxy acids. They may irritate the skin and the eyes. At high oral doses, they may cause depressed reflexes, flaccid muscle tone, breathing difficulty and coma. Death may result in experimental animal. However, repeated exposure may cause dose dependent damage to the kidneys as well as reproductive and developmental defects. * BASF Canada ** [Henkel CCINFO 1450373]		
TRIETHANOLAMINE	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. 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. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance. On the other hand, industrial b		

LANOLIN & CENOSPHERES, HOLLOW CERAMIC MICROSPHERES Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation Respiratory or Skin sensitisation
HOLLOW CERAMIC MICROSPHERES Acute Toxicity Skin Irritation/Corrosion Serious Eye Damage/Irritation
HOLLOW CERAMIC MICROSPHERES Acute Toxicity Skin Irritation/Corrosion
HOLLOW CERAMIC MICROSPHERES Acute Toxicity
HOLLOW CERAMIC
ALCOHOLS C12-14 ETHOXYLATED & TRIETHANOLAMINE
OLEIC ACID & ALCOHOLS C12-14 ETHOXYLATED & TRIETHANOLAMINE & PROPYLENE GLYCOL
PROPYLENE GLYCOL

Legend: X – Data either not available or does not fill the criteria for classification - Data available to make classification

# **SECTION 12 Ecological information**

# Toxicity

Citrogel	Endpoint Not Available	Test Duration (hr) Not Available	Species Not Available	ValueNotAvailable	Source Not Available
C14-20 aliphatics (<=2% aromatics)	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	1.13mg/L	2

	EC50	48		Crustacea		2mg/L	2
	EC50	72		Algae or other aquatic plants		1.714mg/L	2
	NOEL	504		Crustacea		0.163mg/L	2
	LC50	96		Fish		2.2-mg/L	4
	EC50	48		Crustacea		1.4mg/L	2
	EC50	72		Algae or other aquatic plants		3.7mg/L	2
	NOEL	96		Algae or other aquatic plants		0.2mg/L	2
	Endpoint	Test Duration (hr)		Species		Value	Source
oleic acid	LC50	96		Fish		205-mg/L	4
	NOEL	120		Not Available		254.223-mg/L	4
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		0.876mg/L	2
	EC50	48		Crustacea		0.39mg/L	2
alcohols C12-14 ethoxylated	EC50	72		Algae or other aquatic plants		0.13mg/L	2
	EC0	72		Algae or other aquatic plants		0.035mg/L	2
	NOEC	72		Algae or other aquatic plants		0.036mg/L	2
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		>100mg/L	2
lanolin	EC50	48		Crustacea		>100mg/L	2
	EC50	72			Algae or other aquatic plants >100r		2
	NOEC	72		Algae or other aquatic plants		100mg/L	2
	Endpoint	Test Duration (hr)	Spec	ies	Value		Source
	LC50	96	Fish		-0.001060	7-0.0013007mg/L	4
	EC50	48	Crus	acea	-565.2-658		4
triethanolamine	EC50	72	Algae	e or other aquatic plants	>107-<260	)mg/L	2
	EC10	96		Algae or other aquatic plants 7.1mg/L			1
	NOEC	504		lacea	16mg/L		1
	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		710-mg/L	4
propylene glycol	EC50	48		Crustacea		>110mg/L	4
	EC50	96		Algae or other aquatic plants		19000mg/L	2
	NOEC	168		Fish		98-mg/L	4
	Endpoint	Test Duration (hr)		Species		Value	Source
cenospheres, hollow ceramic	LC50	96		Fish		>100mg/L	2
microspheres	EC50	72		Algae or other aquatic plants		>100mg/L	2
	NOEL	72		Algae or other aquatic plants		>=100mg/L	2
Legend:	V3.12 (QSAR	n 1. IUCLID Toxicity Data 2. Euro ) - Aquatic Toxicity Data (Estimate (Japan) - Bioconcentration Data 7	ed) 4. US EPA, Ec	cotox database - Aquatic Toxicity	Data 5. ECETO		

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
oleic acid	LOW	LOW
triethanolamine	LOW	LOW
propylene glycol	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
C14-20 aliphatics (<=2% aromatics)	LOW (BCF = 159)
oleic acid	LOW (LogKOW = 7.7294)
triethanolamine	LOW (BCF = 3.9)
propylene glycol	LOW (BCF = 1)

# Mobility in soil

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Ingredient
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Ingredient	Mobility
oleic acid	LOW (KOC = 11670)
triethanolamine	LOW (KOC = 10)
propylene glycol	HIGH (KOC = 1)

# **SECTION 13 Disposal considerations**

# Waste treatment methods

Product / Packaging disposal	<ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Authority for disposal.</li> <li>Bury or incinerate residue at an approved site.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul>
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#### **SECTION 14 Transport information**

Labels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable

### Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
C14-20 aliphatics (<=2% aromatics)	Not Available
oleic acid	Not Available
alcohols C12-14 ethoxylated	Not Available
lanolin	Not Available
triethanolamine	Not Available
propylene glycol	Not Available
cenospheres, hollow ceramic microspheres	Not Available

### Transport in bulk in accordance with the ICG Code

Product name	Ship Type	
C14-20 aliphatics (<=2% aromatics)	Not Available	
oleic acid	Not Available	
alcohols C12-14 ethoxylated	Not Available	
lanolin	Not Available	
triethanolamine	Not Available	
propylene glycol	Not Available	
cenospheres, hollow ceramic microspheres	Not Available	

### **SECTION 15 Regulatory information**

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

### C14-20 aliphatics (<=2% aromatics) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

### oleic acid is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### alcohols C12-14 ethoxylated is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

lanolin is found on the following regulatory lists

### Australian Inventory of Industrial Chemicals (AIIC)

triethanolamine is found on the following regulatory lists		
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5		
Australian Inventory of Industrial Chemicals (AIIC)		
International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs		
propylene glycol is found on the following regulatory lists		
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5		

Australian Inventory of Industrial Chemicals (AIIC)

# cenospheres, hollow ceramic microspheres is found on the following regulatory lists Not Applicable

### **National Inventory Status**

National Inventory	Status			
Australia - AIIC / Australia Non-Industrial Use	No (cenospheres, hollow ceramic microspheres)			
Canada - DSL	No (cenospheres, hollow ceramic microspheres)			
Canada - NDSL	No (C14-20 aliphatics (<=2% aromatics); oleic acid; alcohols c12-14 ethoxylated; lanolin; triethanolamine; propylene glycol; cenospheres, hollow ceramic microspheres) aromatics);="" oleic="" alcohols="" c12-14="" ethoxylated;="" lanolin;="" triethanolamine;="" propylene="" glycol;="" cenospheres,="" hollow="" ceramic="">			
China - IECSC	No (cenospheres, hollow ceramic microspheres)			
Europe - EINEC / ELINCS / NLP	Yes			
Japan - ENCS	No (alcohols C12-14 ethoxylated; cenospheres, hollow ceramic microspheres)			
Korea - KECI	No (cenospheres, hollow ceramic microspheres)			
New Zealand - NZIoC	No (cenospheres, hollow ceramic microspheres)			
Philippines - PICCS	No (cenospheres, hollow ceramic microspheres)			
USA - TSCA	No (cenospheres, hollow ceramic microspheres)			
Taiwan - TCSI	Yes			
Mexico - INSQ	No (alcohols C12-14 ethoxylated; cenospheres, hollow ceramic microspheres)			
Vietnam - NCI	Yes			
Russia - ARIPS	Yes			
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)			

### **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	09/10/2019

### **SDS Version Summary**

Version	Issue Date	Sections Updated
4.1.1.1	14/10/2019	Acute Health (skin), First Aid (skin), Supplier Information
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### Other information

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.

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.