

JTC Import Export Pty Ltd

Chemwatch: 5392-12 Version No: 2.1.1.1 Safety Data Sheet according to WHS and ADG requirements

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

#### **Product Identifier**

Product name	AutoBright Super Penetrating Lubricant
Synonyms	Product code: 67620
Proper shipping name	AEROSOLS
Other means of identification	Not Available
Relevant identified uses of the substance or mixture and uses advised against	

Relevant identified uses Gear, chain, or wire lubricant - Aerosol.

#### Details of the supplier of the safety data sheet

Registered company name	JTC Import Export Pty Ltd	
Address	98 South Park Drive Dandenong South VIC 3175 Australia	
Telephone	+61 3 9532 5100	
Fax	+61 3 9532 6102	
Website	http://www.jtcimportexport.com.au	
Email	sales@jtcimportexport.com.au	

#### Emergency telephone number

Association / Organisation	JTC Import Export Pty Ltd
Emergency telephone numbers	+61 3 9532 5100 (Mon-Thurs 8.30am to 5.30pm; Friday 8.30am to 3pm)
Other emergency telephone numbers	Not Available

# **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Poisons Schedule	Not Applicable	
Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, Carcinogenicity Category 1A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Chronic Aquatic Hazard Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
abel elements Hazard pictogram(s)		

SIGNAL WORD DANGER

#### Hazard statement(s) H315 Causes skin irritation. H318 Causes serious eye damage. H350 May cause cancer. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

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AUH044 Risk of explosion if heated under confinement.

Precautionary statement(s) Prevention		
P201	Obtain special instructions before use.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P281	Use personal protective equipment as required.	
P261	Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	

# Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see advice on this label).
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.

#### 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
64742-53-6.	30-60	naphthenic distillate, light, hydrotreated (severe)
64742-65-0.	15-40	paraffinic distillate, heavy, solvent-dewaxed (severe)
25619-56-1	5-10	barium dinonyl naphthalenesulfonate
112-80-1	1-5	<u>oleic acid</u>
68608-26-4	1-5	sodium petroleum sulfonate
112-53-8	1-5	lauryl alcohol
68476-85-7.	8-18	hydrocarbon propellant

# **SECTION 4 FIRST AID MEASURES**

Description	of fi	rst aid	measures
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Eye Contact	<ul> <li>If aerosols come in contact with the eyes:</li> <li>Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If solids or aerosol mists are deposited upon the skin:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Remove any adhering solids with industrial skin cleansing cream.</li> <li>DO NOT use solvents.</li> <li>Seek medical attention in the event of irritation.</li> </ul>
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</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>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, 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> </ul>

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.
 Seek medical advice.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

#### Extinguishing media

#### SMALL FIRE:

Water spray, dry chemical or CO2
 LARGE FIRE:
 Water spray or fog.

#### 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>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</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> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Aerosol cans may explode on exposure to naked flames.</li> <li>Rupturing containers may rocket and scatter burning materials.</li> <li>Hazards may not be restricted to pressure effects.</li> <li>May emit acrid, poisonous or corrosive fumes.</li> <li>Decomposes on heating and may emit toxic fumes of carbon monoxide (CO).</li> <li>Decomposition may produce toxic fumes of: carbon dioxide (CO2)</li> <li>phosphorus oxides (POx)</li> <li>sulfur oxides (SOx)</li> <li>metal oxides</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>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> <li>Wipe up.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Absorb or cover spill with sand, earth, inert materials or vermiculite.</li> <li>If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated.</li> <li>Undamaged cans should be gathered and stowed safely.</li> <li>Collect residues and seal in labelled drums for disposal.</li> </ul>

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

#### Precautions for safe handling

Safe handling	<ul> <li>DO NOT incinerate or puncture aerosol cans.</li> <li>DO NOT spray directly on humans, exposed food or food utensils.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately.</li> </ul>
Octo han dian	<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>Avoid smoking, naked lights or ignition sources.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> </ul>

#### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

# 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	naphthenic distillate, light, hydrotreated (severe)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	paraffinic distillate, heavy, solvent- dewaxed (severe)	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available

# EMERGENCY LIMITS

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
paraffinic distillate, heavy, solvent-dewaxed (severe)	Pump oil; (petroleum distillates, solvent de-waxed heavy paraffinic		140 mg/m3	1,500 mg/m3	8,900 mg/m3
oleic acid	Octadecenoic acid, 9-; (Oleic acid)		220 mg/m3	2,400 mg/m3	15,000 mg/m3
lauryl alcohol	Dodecyl alcohol		12 mg/m3	140 mg/m3	820 mg/m3
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)		65,000 ppm	2.30E+05 ppm	4.00E+05 ppm
Ingredient	Original IDLH	Revised IDLH			
naphthenic distillate, light, hydrotreated (severe)	2,500 mg/m3	Not Av	Not Available		
paraffinic distillate, heavy, solvent-dewaxed (severe)	2,500 mg/m3	Not Av	Not Available		
barium dinonyl naphthalenesulfonate	Not Available	Not Available			
oleic acid	Not Available	Not Av	Not Available		
sodium petroleum sulfonate	Not Available Not Available				
lauryl alcohol	Not Available	Not Available			
hydrocarbon propellant	2,000 ppm	Not Available			

# OCCUPATIONAL EXPOSURE BANDING Ingredient Occupational Exposure Band Rating Occupational Exposure Band Limit barium dinonyl naphthalenesulfonate E ≤ 0.01 mg/m³ lauryl alcohol E ≤ 0.01 mg/m³ 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.

# Exposure 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.
Appropriate engineering	The basic types of engineering controls are:
controls	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.
	<ul> <li>Employees exposed to confirmed human carcinogens should be authorized to do so by the employer, and work in a regulated area.</li> <li>Work should be undertaken in an isolated system such as a "glove-box". Employees should wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.</li> <li>Within regulated areas, the carcinogen should be stored in sealed containers, or enclosed in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.</li> <li>Open-vessel systems are prohibited.</li> <li>Each operation should be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation.</li> <li>Exhaust air should not be discharged to regulated areas, non-regulated areas or the external environment unless decontaminated. Clean make-up air should be introduced in sufficient volume to maintain correct operation of the local exhaust system.</li> <li>For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood. Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>Except for outdoor systems, regulated areas should be maintained under negative pressure (with respect to non-regulated areas).</li> <li>Local exhaust ventilation requires make-up air be supplied in equal volumes to replaced air.</li> <li>Laboratory hoods must be designed and maintained so as to draw air inward at an average linear face velocity of 0.76 m/sec with a minimum of 0.64 m/sec. Design and construction of the fume hood requires that insertion of any portion of the employees body, other than hands and arms, be disallowed.</li> </ul>
Personal protection	
Eye and face protection	No special equipment for minor exposure i.e. when handling small quantities. <b>OTHERWISE</b> : For potentially moderate or heavy exposures: • Safety glasses with side shields. • <b>NOTE</b> : Contact lenses pose a special hazard; soft lenses may absorb irritants and <b>ALL</b> lenses concentrate them.
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE:</li> <li>For potentially moderate exposures:</li> <li>Wear general protective gloves, eg. light weight rubber gloves.</li> <li>For potentially heavy exposures:</li> <li>Wear chemical protective gloves, eg. PVC. and safety footwear.</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]</li> <li>Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent]</li> <li>Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.</li> <li>Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.</li> <li>No special equipment needed when handling small quantities.</li> <li>OTHERWISE: <ul> <li>Overalls.</li> <li>Skin cleansing cream.</li> <li>Eyewash unit.</li> <li>Do not spray on hot surfaces.</li> </ul> </li> </ul>

#### Recommended material(s)

GLOVE SELECTION INDEX

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

AutoBright Super Penetrating Lubricant

Material	CPI
NATURAL RUBBER	А
NATURAL+NEOPRENE	А
NEOPRENE	А
NEOPRENE/NATURAL	А
NITRILE	А
PVA	А
PVC	В

#### **Respiratory protection**

Type AX-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	AX-AUS P2	-	AX-PAPR-AUS / Class 1 P2
up to 50 x ES	-	AX-AUS / Class 1 P2	-
up to 100 x ES	-	AX-2 P2	AX-PAPR-2 P2 ^

^ - Full-face

 $\begin{array}{l} \mbox{A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic \\ \end{array}$ 

\* 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  ${\bf NOTE}:$  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

compounds(below 65 degC)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

Appearance	Yellow liquid with oily odour; partly mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	0.9
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	7	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 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)	Not Available	Gas group	Not Available
Solubility in water	Partly 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>Elevated temperatures.</li> <li>Presence of open flame.</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	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. The vapour is discomforting WARNING:Intentional misuse by concentrating/inhaling contents may be lethal. Inhalation hazard is increased at higher temperatures. 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.
Ingestion	Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments
Skin Contact	This material can cause inflammation of the skin on contact in some persons. Limited evidence suggests that repeated exposure may cause skin cracking, flaking or drying following normal handling and use. The material may accentuate any pre-existing dermatitis condition Spray mist may produce discomfort 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.
Eye	If applied to the eyes, this material causes severe eye damage.
Chronic	There is sufficient evidence to suggest that this material directly causes cancer in humans. There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population. There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general general population.

	Oil may contact the skin or be inhaled. Extended exposure ca on the soles of the feet. WARNING: Aerosol containers may present pressure related	an lead to eczema, inflammation of hair follicles, pigmentation of the face and wart hazards.
	TOXICITY	IRRITATION
	Inhalation (None) LC50: 21.40 mg/l (dust&mist)* <sup>[2]</sup>	Not Available
AutoBright Super Penetrating Lubricant	Inhalation (None) LC50: 62273 ppm/4h (gases)* <sup>[2]</sup>	
	Oral (None) LD50: 7143 mg/kg* <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
naphthenic distillate, light,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
hydrotreated (severe)	Inhalation (rat) LC50: 2.18 mg/l/4H <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	
	тохісіту	IRRITATION
paraffinic distillate, heavy,	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
solvent-dewaxed (severe)	Inhalation (rat) LC50: >5.3 mg/l4 h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (rat) LD50: >5000 mg/kg <sup>[2]</sup>	
	TOXICITY	IRRITATION
barium dinonyl	Dermal (rabbit) LD50: >2000 mg/kg <sup>[2]</sup>	Eye (rabbit): 250 mg/5d mild
naphthalenesulfonate	Inhalation (rat) LC50: >5.25 mg/l/1H <sup>[2]</sup>	
	Oral (rat) LD50: 3000 mg/kg <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
oleic acid	Oral (rat) LD50: 25000 mg/kg <sup>[2]</sup>	Skin (human):15 mg/3d-I- moderate
		Skin (rabbit):500 mg mild
	ΤΟΧΙϹΙΤΥ	IRRITATION
sodium petroleum sulfonate	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
lauryl alcohol	Dermal (rabbit) LD50: 1500 mg/kg <sup>[2]</sup>	Skin (human): 75 mg/3d-I-SEVERE
	Inhalation (rat) LC50: >1.575 mg/l/6H <sup>[2]</sup>	
	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	
hydrocarbon propellant	TOXICITY	IRRITATION
	Not Available	Not Available
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substance specified data extracted from RTECS - Register of Toxic Effe</li> </ol>	s - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise act of chemical Substances
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE)	n-paraffins is inversely proportional to the carbon chain lengt be present in mineral oil, n-paraffins may be absorbed to a g The major classes of hydrocarbons are well absorbed into th hydrocarbons are ingested in association with fats in the diet gut lymph, but most hydrocarbons partly separate from fats a	affins are absorbed from the gastrointestinal tract and that the absorption of h, with little absorption above C30. With respect to the carbon chain lengths likely reater extent than iso- or cyclo-paraffins. e gastrointestinal tract in various species. In many cases, the hydrophobic s. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the and undergo metabolism in the gut cell. The gut cell may play a major role in ilable to be deposited unchanged in peripheral tissues such as in the body fat sto
BARIUM DINONYL NAPHTHALENESULFONATE	dinonylnaphthalene sulfonic acid, barium salt). Neither is a se Based on the available toxicity results, dinonylnaphthalene si category. 551dnnsa Linear alkyl benzene sulfonates are derived from strong corre sluggishness, passage of frequent watery stools, weakness a	Ibers of the category (dinonylnaphthalene sulfonic acid, calcium salt; ensitiser. ulfonic acid, barium salt appears to be the most biologically active member of the osive acids. Animal testing has shown they can cause skin reactions, eye irritation and may lead to death. They may also react with surfaces of the mouth and e is no evidence of harm to the unborn baby or tendency to cause cancer.
OLEIC ACID	are more vulnerable to being oxidized and therefore rancid. Foods containing monounsaturated fats reduce low-density li cholesterol. Levels of oleic, and other monounsaturated fatty acids in red children, consumption of monounsaturated oils is associated	by providing more membrane fluidity than monounsaturated fats (MUFAs), but the ipoprotein (LDL) cholesterol, while possibly increasing high-density lipoprotein (HI blood cell membranes were positively associated with breast cancer risk. In with healthier blood lipid profiles.

	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. 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.
SODIUM PETROLEUM SULFONATE	<ul> <li>Vestices, scaling and inteckning of the skrif.</li> <li>For alkyl sulfates; alkane sulfonates and alpha-olefin sulfonates</li> <li>Most chemicals of this category are not defined substances, but mixtures of homologues with different alkyl side chains. Common physical and/or biological pathways result in structurally similar breakdown products, and are, together with the surfactant properties, responsible for similar environmental behavior and essentially identical hazard profiles with regard to human health.</li> <li>Acute toxicity: These substances are well absorbed after ingestion; penetration through the skin is however, poor. After absorption, these chemicals are distributed mainly to the liver.</li> <li>In animals, signs of poisoning by mouth include lethargy, hair standing up, decreased motor activity and breathing rate, and diarrhea. Poisoning from skin contact caused irritation, tremor, tonic-clonic convulsions, breathing failure, and weight loss. The C-12-akyl sulfate sodium salt caused the greatest effect.</li> <li>In eye irritation tests, C-12 containing alkyl sulfates at greater than 10% concentration were severely irritating and produced irreversible effects on the comea. With increasing alkyl sulfates and C14-18 alpha-olefin sulfonates to cause skin sensitization. However there is anecdotal evidence to suggest sodium lauryl sulfate causes sensitization of the lung, resulting in hyperactive airway dysfunction and lung allergy, accompanied by fatigue, malaise and aching. Significant symptoms of exposure can persist for more than two years, and can be activated by a variety of non-specific environmental stimuli, such as exhaust, perfumes and passive smoking. Airborne sulfonates has produced skin inflammation was sensitization in predisposed individuals.</li> <li>Repeat dose toxicity: The liver seems to be the only organ that is affected by repeated exposure, with elevated levels of liver enzymes, an increase in liver weight and enlargement of liver cells being seen.</li> <li>Genetic toxicity</li></ul>
LAURYL ALCOHOL	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 eosinophila. 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 (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. 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. Alkyl alcohols of chain length C6-13 are absorbed from skin, when inhaled or swallowed but show evidence of little harm. They are broken down and rapidly excreted by the body. No risk to human health is expected from the use of leptidopteran pheromones. During the many years of its use as pesticides, no adverse effects have been reported. As such the U.S. EPA concludes that consumption of food containing residues of the pheromones presents no risk and allowed their use experimentally without a permit on up to 250 acres, versus the 10-acre limit imposed on other pesticides.
HYDROCARBON PROPELLANT	inhalation of the gas
NAPHTHENIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) & PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE)	<ul> <li>The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives;</li> <li>The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since:</li> <li>The adverse effects of these materials are associated with undesirable components, and</li> <li>The levels of the undesirable components are inversely related to the degree of processing;</li> <li>Distillate base oils receiving the same degree or extent of processing will have similar toxicities;</li> <li>The potential toxicity of residual base oils is independent of the degree of processing the oil receives.</li> <li>The reproductive and developmental toxicity of the distillate base oils inversely related to the degree of processing.</li> <li>Unrefined &amp; mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that lubricating base oils inductive leaded to the degree/conditions of processing.</li> <li>For highly and severely refined distillate base oils:</li> <li>In animal studies, the acute, oral, semilethal dose is &gt;5g/kg</li></ul>
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) & BARIUM DINONYL NAPHTHALENESULFONATE & SODIUM PETROLEUM SULFONATE & HYDROCARBON PROPELLANT	Evidence of carcinogenicity may be inadequate or limited in animal testing. No significant acute toxicological data identified in literature search.
BARIUM DINONYL NAPHTHALENESULFONATE & SODIUM PETROLEUM	For alkaryl sulfonate petroleum additives: Acute toxicity: Existing data indicates relatively low acute toxicity. Animal testing suggested diarrhea and reduced food intake, which is consistent with the detergents in an oil-based vehicle having an irritating effect on the gastrointestinal tract.

SULFONATE	Subchronic toxicity: Existing data suggests minimal to caused injury to the skin and the lungs, respectively. Reproductive and Developmental Toxicity: Existing da There was low concern for mutation-causing potential	ta did not show this group of substand	
Acute Toxicity	×	Carcinogenicity	¥
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			ot available or does not fill the criteria for classification le to make classification

# SECTION 12 ECOLOGICAL INFORMATION

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
AutoBright Super Penetrating Lubricant	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCI
	LC50	96	Fish	>100mg/L	2
naphthenic distillate, light, hydrotreated (severe)	EC50	48	Crustacea	>10-mg/L	2
ilyuloiteateu (sevele)	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	>100mg/L	2
paraffinic distillate, heavy, solvent-dewaxed (severe)	EC50	48	Crustacea	>10-mg/L	2
	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	NOEC	504	Crustacea	>1mg/L	1
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
barium dinonyl naphthalenesulfonate	Not Available	Not Available	Not Available	Not Available	Not Availabl
oleic acid	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
oleic aciu	LC50	96	Fish	205mg/L	4
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
sodium petroleum sulfonate	EC50	96	Algae or other aquatic plants	>1-mg/L	2
	NOEC	96	Algae or other aquatic plants	1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.301mg/L	3
lauryl alcohol	EC50	48	Crustacea	0.765mg/L	2
	EC50	96	Algae or other aquatic plants	0.327mg/L	3
	NOEC	504	Crustacea	0.014mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	24.11mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.71mg/L	2
	LC50	96	Fish	24.11mg/L	2
	EC50	96	Algae or other aquatic plants	7.71mg/L	2

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
oleic acid	LOW	LOW
lauryl alcohol	LOW	LOW

Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
oleic acid	LOW (LogKOW = 7.7294)
lauryl alcohol	HIGH (LogKOW = 5.13)

# Mobility in soil

Ingredient	Mobility
oleic acid	LOW (KOC = 11670)
lauryl alcohol	LOW (KOC = 327.1)

# SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Product / Packaging disposal	<ul> <li>DO NOT 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.</li> <li>Where in doubt contact the responsible authority.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Discharge contents of damaged aerosol cans at an approved site.</li> <li>DO NOT incinerate or puncture aerosol cans.</li> <li>Bury residues and emptied aerosol cans at an approved site.</li> </ul>
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# **SECTION 14 TRANSPORT INFORMATION**

Labels Required	
Marine Pollutant	
HAZCHEM	Not Applicable

# Land transport (ADG)

UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	Class     2.2       Subrisk     Not Applicable
Packing group	Not Applicable
Environmental hazard	Environmentally hazardous
Special precautions for user	Special provisions     63 190 277 327 344 381       Limited quantity     1000ml

# Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, non-flammable	9		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.2 Not Applicable		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardo	ous		
Special precautions for user	Special provisions Cargo Only Packing In Cargo Only Maximum Passenger and Cargo	Qty / Pack	A98 A145 A167 A802 203 150 kg 203	

Passenger and Cargo Maximum Qty / Pack	75 kg
Passenger and Cargo Limited Quantity Packing Instructions	Y203
Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

#### Sea transport (IMDG-Code / GGVSee)

UN number	1950			
UN proper shipping name	AEROSOLS			
Transport hazard class(es)	IMDG Class     2.2       IMDG Subrisk     Not Applicable			
Packing group	Not Applicable			
Environmental hazard	Marine Pollutant			
Special precautions for user	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 381 959Limited Quantities1000 ml			

# 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

#### NAPHTHENIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) IS FOUND ON THE FOLLOWING REGULATORY LISTS

NAPHTHENIC DISTILLATE, LIGHT, HYDROTREATED (SEVERE) IS FOUND ON THE F	OLLOWING REGULATORY LISTS
Australia Exposure Standards	IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	containing at least 99% by weight of components already assessed by IMO
Australia Inventory of Chemical Substances (AICS)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Chemical Footprint Project - Chemicals of High Concern List	Monographs
	International FOSFA List of Banned Immediate Previous Cargoes
PARAFFINIC DISTILLATE, HEAVY, SOLVENT-DEWAXED (SEVERE) IS FOUND ON TH	IE FOLLOWING REGULATORY LISTS
Australia Exposure Standards	IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals	containing at least 99% by weight of components already assessed by IMO
Australia Inventory of Chemical Substances (AICS)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
Chemical Footprint Project - Chemicals of High Concern List	Monographs International FOSFA List of Banned Immediate Previous Cargoes
BARIUM DINONYL NAPHTHALENESULFONATE IS FOUND ON THE FOLLOWING RE	EGULATORY LISTS
Australia Inventory of Chemical Substances (AICS)	
OLEIC ACID IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Inventory of Chemical Substances (AICS)	GESAMP/EHS Composite List - GESAMP Hazard Profiles
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	IMO IBC Code Chapter 17: Summary of minimum requirements
Appendix B (Part 3)	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5	
SODIUM PETROLEUM SULFONATE IS FOUND ON THE FOLLOWING REGULATORY	LISTS
Australia Inventory of Chemical Substances (AICS)	IMO IBC Code Chapter 17: Summary of minimum requirements
GESAMP/EHS Composite List - GESAMP Hazard Profiles	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
LAURYL ALCOHOL IS FOUND ON THE FOLLOWING REGULATORY LISTS	
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	IMO MARPOL (Annex II) - List of Noxious Liquid Substances Carried in Bulk
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	IMO Provisional Categorization of Liquid Substances - List 2: Pollutant only mixtures
Australia Inventory of Chemical Substances (AICS)	containing at least 99% by weight of components already assessed by IMO
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -	International Air Transport Association (IATA) Dangerous Goods Regulations
Appendix B (Part 3)	International Maritime Dangerous Goods Requirements (IMDG Code)
GESAMP/EHS Composite List - GESAMP Hazard Profiles	United Nations Recommendations on the Transport of Dangerous Goods Model
IMO IBC Code Chapter 17: Summary of minimum requirements	Regulations
HYDROCARBON PROPELLANT IS FOUND ON THE FOLLOWING REGULATORY LIST	TS
Australia Dangerous Goods Code (ADG Code) - Dangerous Goods List	Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -
Australia Dangerous Goods Code (ADG Code) - List of Emergency Action Codes	Schedule 5
Australia Dangerous Goods Code (ADG Code) - Packing Instruction - Liquefied and	Chemical Footprint Project - Chemicals of High Concern List
Dissolved Gases	International Air Transport Association (IATA) Dangerous Goods Regulations
Australia Exposure Standards	International Maritime Dangerous Goods Requirements (IMDG Code)
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)	United Nations Recommendations on the Transport of Dangerous Goods Model Regulations
National Inventory Status	

#### National Inventory Status

National Inventory	Status
Australia - AICS	Yes

Canada - DSL	Yes		
Canada - NDSL	No (sodium petroleum sulfonate; paraffinic distillate, heavy, solvent-dewaxed (severe); naphthenic distillate, light, hydrotreated (severe); hydrocarbon propellant; lauryl alcohol; barium dinonyl naphthalenesulfonate; oleic acid)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (naphthenic distillate, light, hydrotreated (severe))		
Vietnam - NCI	Yes		
Russia - ARIPS	No (sodium petroleum sulfonate)		
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	24/02/2020
Initial Date	24/02/2020

#### SDS Version Summary

Version	Issue Date	Sections Updated
2.1.1.1	24/02/2020	Appearance, Classification, Fire Fighter (fire/explosion hazard), Toxicity and Irritation (Toxicity Figure), Use

#### 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.

#### Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

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