Auto Klene AK55 CARNAUBA WAX

Auto Klene Solutions

Chemwatch: 5250-74A Issue Date: 18/04/2017 Version No: 2.1.1.1 Print Date: 01/05/2017

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

S.GHS.AUS.EN

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

Product Identifier			
Product name	Auto Klene AK55 CARNAUBA WAX		
Synonyms	Not Available		
Other means of identification	Not Available ne substance or mixture and uses advised against		
Relevant Identified uses of th			
Relevant identified uses	Use according to manufacturer's directions. Polish.		
Details of the supplier of the	safety data sheet		
Registered company name	Auto Klene Solutions		
Address	1/83 Merrindale Drive Croydon VIC 3136 Australia		
Telephone	+61 3 8761 1900		
Fax	ax +61 3 8761 1955		
Website	https://www.autoklene.com/msds/		
Email	Not Available		
Emergency telephone number	er		
Association / Organisation	Not Available		
Emergency telephone numbers	131 126 (Poisons Information Centre)		
Other emergency telephone numbers	0800 764 766 (New Zealand Poisons Information Centre)		
SECTION 2 HAZARDS ID	ENTIFICATION		

Classification of the substance or mixture

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

CHEMWATCH HAZARD RATINGS

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

Poisons Schedule	Not Applicable		
[1] Classification	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract rritation)		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI		
Label elements			
Hazard pictogram(s)			
SIGNAL WORD	WARNING		
Hazard statement(s)			
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		

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H335					
Precautionary statement(s) P	Prevention				
P271	Use only outdoors or in a well-ventilated area.				
P261	Avoid breathing mist/vapours/spray.				
P280	Wear protective gloves/protective clothing/eye protection/face protection.				
Precautionary statement(s) R	Response				
P362	Take off contaminated clothing and wash before reuse.				
P305+P351+P338	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
P312	Call a POISON CENTER or doctor/physician if you feel unwell.				
P337+P313	If eye irritation persists: Get medical advice/attention.				
P302+P352	P302+P352 IF ON SKIN: Wash with plenty of soap and 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) S	storage				
P405	Store locked up.				
P403+P233	Store in a well-ventilated place. Keep container tightly closed.				
Precautionary statement(s) D	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		
8015-86-9	<25	Carnauba Wax Flakes		
8042-47-5	<10	white mineral oil (petroleum)		
56-81-5	<10	glycerol		
9002-84-0	<5	polytetrafluoroethylene		
7732-18-5	30-60	water		
SECTION A FIDET AID	MEACUDEC			

SECTION 4 FIRST AID MEASURES

	If this product comes in contact with the eyes: ▶Wash out immediately with fresh running water.
Eye Contact	► 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. • Seek medical attention without delay; if pain persists or recurs seek medical attention.
	▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

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Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and scap if available). It Seek medical attention in event of irritation. For thermal burns: Decontaminate area around burn. Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin) Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides. Use compresses if running water is not available. Cover with sterile non-adhesive bandage or clean cloth. Do NOT apply butter or ointments; this may cause infection. Give over-the counter pain relievers if pain increases or swelling, redness, fever occur. For second-degree burns (affecting top two layers of skin) Cool the burn by immerse in cold running water is not available. Do NOT apply butter or ointments; this may cause infection. Joe NOT apply ice as this may lower body temperature and cause further damage. Do NOT apply ice as this may lower body temperature and cause further damage. Do NOT preak blisters or apply butter or ointments; this may cause infection. Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape. To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort): Lay the person flat. Elevate feet about 12 inches. Elevate feet about 12 inches. Elevate feet about 20 inches. Seek immediate medical or emergency assistance. In the mean time:
	 Protect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. Separate burned toes and fingers with dry, sterile dressings. Do not soak burn in water or apply ointments or butter; this may cause infection. To prevent shock see above. For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. Have a person with a facial burn sit up. Check pulse and breathing to monitor for shock until emergency help arrives.
Inhalation	 If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiratio Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.

Treat symptomatically.

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.

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Advice for firefighters

Advice for firefighters	
Fire Fighting	 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 courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.
Fire/Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: , carbon dioxide (CO2) , hydrogen chloride , phosgene , hydrogen fluoride , other pyrolysis products typical of burning organic material. May emit corrosive fumes. May emit corrosive fumes.
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

	Methods and material for cor	trainment and cleaning up
		▶ Clean up all spills immediately.
		► Avoid breathing vapours and contact with skin and eyes.
▶ Control personal contact with the substance, by using protective equipment. ▶		
	Contain and absorb spill with sand, earth, inert material or vermiculite.	
		▶Wipe up.
		▶Place in a suitable, labelled container for waste disposal.
		Moderate hazard.
		▶ Clear area of personnel and move upwind.
		► Alert Fire Brigade and tell them location and nature of hazard.
	Major Spills	► 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

ecautions for safe handling	
Safe handling	 DO NOT allow clothing wet with material to stay in contact with skin Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils.
	Avoid contact with incompatible materials.

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	 ▶ Store in original containers. ▶ Keep containers securely sealed.
	► No smoking, naked lights or ignition sources.
Other information	▶ Store in a cool, dry, well-ventilated area.
	 Store away from incompatible materials and foodstuff containers.
	Protect containers against physical damage and check regularly for leaks.
	 Observe manufacturer's storage and handling recommendations contained within this SDS.
Conditions for safe storage,	including any incompatibilities
	▶ Metal can or drum
Suitable container	► Packaging as recommended by manufacturer.
	► Check all containers are clearly labelled and free from leaks.
Storage incompatibility	► Avoid reaction with oxidising agents
SECTION 8 EXPOSURE C	ONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	white mineral oil (petroleum)	White spirits	790 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	glycerol	Glycerin mist	10 mg/m3	Not Available	Not Available	Not Available

EMERGENCY LIMITS					
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
white mineral oil (petroleum)	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)		300 mg/m3	1,800 mg/m3	29500 mg/m3
glycerol	Glycerine (mist); (Glycerol; Glycerin)		45 mg/m3	860 mg/m3	2,500 mg/m3
polytetrafluoroethylene	Polytetrafluoroethylene; (Teflon)	Polytetrafluoroethylene; (Teflon)		130 mg/m3	790 mg/m3
Ingredient	Original IDLH Revised IDLH		4		
white mineral oil (petroleum)	29,500 mg/m3 20,000 mg/m3		3		
glycerol	Not Available Not Available				
polytetrafluoroethylene	Not Available Not Available				
water	Not Available Not Available				
xposure controls		1			
Appropriate engineering	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.				

controls 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

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	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	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
Body protection	See Other protection below
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Thermal hazards	Not Available
Recommended material(s)	which might otherwise be unsuitable following long-term or frequent use. A qualified

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: Auto Klene AK55 CARNAUBA WAX

Material	CPI
BUTYL	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NITRILE	С
PVA	С
VITON	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as"feel" or convenience (e.g. disposability), may dictate a choice of gloves

practitioner should be consulted.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES **Respiratory protection**

Type A-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	A-AUS P2	-	A-PAPR-AUS / Class 1 P2
up to 50 x ES	-	A-AUS / Class 1 P2	-
up to 100 x ES	-	A-2 P2	A-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)

Information on basic physical and chemical properties

Appearance	Yellow coloured, smooth creamy liquid with a fresh odour; mixes with water. Viscosity: 7500-8500 cps (20?)		
Physical state	liquid	Relative density (Water = 1)	0.9-1.0

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Flash point (°C)	>95	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Applicable	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 (g/L)	Miscible	pH as a solution (1%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	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)	7.5-8.5	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	0	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	

SECTION 10 STABILITY AND REACTIVITY

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

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(PETROLEUM	The potential toxicity of a specific distillate base oil is inversely re	elated to the severity or extent of processing the oil has undergone, since:		
nformation on toxicological ef	lfects			
Inhaled	The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Not normally a hazard due to non-volatile nature of product			
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 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 us any external damage is suitably protected.			
Eye	This material can cause eye irritation and damage in some persons.			
Chronic	Long-term exposure to respiratory irritants may result in airways dise There has been some concern that this material can cause cancer of Substance accumulation, in the human body, may occur and may ca Exposure to large doses of aluminium has been connected with the o	r mutations but there is not enough data to make an assessment. use some concern following repeated or long-term occupational exposure.		
	TOXICITY	IRRITATION		
Auto Klene AK50 FLUORORESIN POLISH	Dermal (Rabbit) LD50: >2000 mg/kg	Not Available		
	Oral (Rat) LD50: >5000 mg/kg]			
	TOXICITY	IRRITATION		
aluminium oxide	[1] Oral (rat) LD50: >2000 mg/kgNot Available			
	ΤΟΧΙCΙΤΥ	IRRITATION		
white mineral oil (petroleum)	Dermal (rabbit) LD50: >2000 mg/kg Oral (rat) LD50: >5000 mg/kg1	Not Available		
	TOXICITY	IRRITATION		
glycerol	[2] Oral (rat) LD50: 12600 mg/kgNot Available			
	τοχιςιτγ	IRRITATION		
polytetrafluoroethylene	[2] Oral (rat) LD50: 1250 mg/kg*]Not Available			
	τοχιςιτγ	IRRITATION		
water				
	Not Available	Not Available		
	/alue obtained from Europe ECHA Registered Substances - Acute toxi specified data extracted from RTECS - Register of Toxic Effect of cher			

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 The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing; Distillate base oils receiving the same degree or extent of processing will have similar toxicities; The potential toxicity of residual base oils is independent of the degree of processing the oil receives. The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the larg hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Hig distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable con to unrefined and mildly refined base oils, the highly and severely refined distillate base oils for mutation-causing and cancer-cau 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 the low acute toxicities. For highly and severely refined distillate base oils: In animal studies, the acute, oral, semilethal dose is >5g/kg body weight and the semilethal dose by skin contact is semilethal concentration for inhalation is 2.18 to >4 mg/L. The materials have varied from "non-irritating" to "mode tested for skin and eye irritation. Testing for sensitisation has been negative. The effects of repeated exposure va effects to the testes and lung have been observed, as well as the formation of granulomas. In animals, these substances have not been found to cau significant increases in birth defects. They are also not considered to cause cancer, mutations or chromosome aberrations. Oral (rat) TCLo: 92000 mg/kg/92D-Cont. Generally the to		ee of processing; ave similar toxicities; rocessing the oil receives. ersely related to the degree of processing. ble components, have the largest variation of mutation-causing activities. Highly and severely refined or transforming undesirable components. In comparison ase oils have a smaller range of hydrocarbon molecules itation-causing and cancer-causing potential has shown ecular size. emilethal dose by skin contact is >2g/kg body weight. The d from "non-irritating" to "moderately irritating" when ffects of repeated exposure vary by species; in animals, es have not been found to cause reproductive toxicity or s or chromosome aberrations. w order. White oils and highly/solvent refined oils have on with some other mineral oils, due in all probability to			
GLYCER	of persistent asthma-like symptoms within minutes include a reversible airflow pattern on lung function and the lack of minimal lymphocytic inflammation, u disorder with rates related to the concentration of a bronchitis is a disorder that occurs as a result of ex (often particles) and is completely reversible after of	r even years after exposure to the yndrome (RADS) which can occu- ude the absence of previous airw to hours of a documented expos- n tests, moderate to severe brond without eosinophilia. RADS (or a and duration of exposure to the in xposure due to high concentratio exposure ceases. The disorder is predicts that glycerol may cause	e material ends. This may be due to a non-allergic ur after exposure to high levels of highly irritating vays disease in a non-atopic individual, with sudden onset sure to the irritant. Other criteria for diagnosis of RADS chial hyperreactivity on methacholine challenge testing, sthma) following an irritating inhalation is an infrequent ritating substance. On the other hand, industrial ns of irritating substance s characterized by difficulty breathing, cough and mucus tremor, irritation of the skin, eyes, digestive tract and		
POLYTETRAFLUOROETHYLEN	The meterial many and the period and multiplication	Perfluorinated compounds are potent peroxisome proliferators. The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the cytoplasm that are found in			
ALUMINIUM OXIDE & WATER	No significant acute toxicological data identified in	No significant acute toxicological data identified in literature search.			
WHITE MINERAL (PETROLEUM POLYTETRAFLUOROETHYLEN) & NOT classifiable as to its carcinogenicity to human				
Acute Toxicity	×	Carcinogenicity			
Skin Irritation/Corrosion		Reproductivity			
Serious Eye Damage/Irritation	*	STOT - Single Exposure	*		
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0		
Mutagenicity	0	Aspiration Hazard	0		
			A pata available but does not fill the criteria for		
	classification	Legend:			

SECTION 12 ECOLOGICAL INFORMATION

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Toxicity					
Auto Klene AK50 FLUORORESIN	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
POLISH					

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	NotNotNot	Not ApplicableNot Applicable ApplicableApplicableApplicable	3		
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	LC50	96	Fish	0.0029mg/L	2
aluminium oxide	EC50	48	Crustacea	0.7364mg/L	2
	EC50	96	Algae or other aquatic plants	0.0054mg/L	2
	EC50	168	Crustacea	0.0076mg/L	2
	NOEC	72	Algae or other aquatic plants	>=0.004mg/L	2
white mineral oil (petroleum)	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURC
	NotNotNot	Not ApplicableNot Applicable	SPECIES	VALUE	SOURC
	NotNotNot	Not ApplicableNot Applicable		VALUE	
	NotNotNot	Not ApplicableNot Applicable	pplicableApplicableApplicable		
(petroleum)	NotNotNot	Not ApplicableNot Applicable A TEST DURATION (HR)	ApplicableApplicable SPECIES	VALUE	SOURC

for lubricating oil base stocks:

Vapor Pressure Vapor pressures of lubricating base oils are reported to be negligible. In one study, the experimentally measured vapour pressure of a solvent-dewaxed heavy paraffinic distillate base oil was 1.7 x 10exp-4 Pa. Since base oils are mixtures of C15 to C50 paraffinic, naphthenic, and aromatic hydrocarbon isomers, representative components of those structures were selected to calculate a range of vapor pressures. The estimated vapor pressure values for these selected components of base oils ranged from 4.5 x 10exp-1 Pa to 2 x 10exp-13Pa. Based on Dalton's Law the expected total vapour pressure for base oils would fall well below minimum levels (10exp-5 Pa) of recommended experimental procedures.

Partition Coefficient (log Kow): In mixtures such as the base oils, the percent distribution of the hydrocarbon groups (i.e., paraffins, naphthenes, and aromatics) and the carbon chain lengths determines in-part the partitioning characteristics of the mixture. Generally, hydrocarbon chains with fewer carbon atoms tend to have lower partition coefficients than those with higher carbon numbers. However, due to their complex composition, unequivocal determination of the log Kow of these hydrocarbon mixtures cannot be made. For Glycerol: Log Kow: -2.66 to -2.47, Atmospheric Fate: Glycerol is broken down in the air by hydroxyl radicals the half-life for this process is 6.8 hours. However, only a negligible amount of the substance will move to the atmospheric compartment. Terrestrial Fate: Only a negligible amount of glycerol will move into the soil compartment, if released in the environment. Aquatic Fate: Glycerol is considered to be readily biodegradable in the aquatic environment. Pre-adapted microorganisms can break glycerol down rapidly in oxygen waters. The substance is not expected to react with water. When released to water, 100% of the substance will remain in the water compartment - only negligible amounts will be distributed to sediment. For Aluminium and its Compunds and Salts:

Environmental Fate - As an element, aluminium cannot be degraded in the environment, but may undergo various precipitation or ligand exchange reactions. Aluminium in compounds has only one oxidation state (+3), and would not undergo oxidation-reduction reactions under environmental conditions. Aluminium can be complexed by various ligands present in the environment (e.g., fulvic and humic acids). The solubility of aluminium in the environment will depend on the ligands present and the pH. Atmospheric Fate: Air Quality Standards: none available.

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ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE polytetrafluoroethylene 64.087mg/L LC50 Fish 96 3 EC50 96 Algae or other aquatic plants 248.438mg/L 3 384 15.096mg/L 3 EC50 Crustacea water ENDPOINT TEST DURATION (HR) SPECIES VALUE SOURCE NotNotNot Not ApplicableNot Applicable ApplicableApplicableApplicable

Aquatic Fate: The hydrated aluminium ion undergoes hydrolysis. The speciation of aluminium in water is pH dependent. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air		
glycerol	LOW	LOW		
polytetrafluoroethylene	HIGH	HIGH		
water	LOW			
Bioaccumulative potential				
Ingredient	Bioaccumulation			
glycerol	LOW (LogKOW = -1.76)			
polytetrafluoroethylene	LOW (LogKOW = 1.2142)			
water	LOW (LogKOW = -1.38)			
Mobility in soil	·			
Ingredient	Mobility			
glycerol	HIGH (KOC = 1)			
polytetrafluoroethylene	LOW (KOC = 106.8)	LOW (KOC = 106.8)		
water	LOW (KOC = 14.3)			
SECTION 13 DISPOSAL	CONSIDERATIONS			

Waste treatment methods

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Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Reuse Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied Product / Packaging in making decisions of this type. disposal Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. ▶ It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▶ Where in doubt contact the responsible authority. ▶ Recycle wherever possible or consult manufacturer for recycling options. ▶ Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

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SECTION 14 TRANSPORT INFORMATION

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

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 **SECTION 15 REGULATORY INFORMATION** Safety, health and environmental regulations / legislation specific for the substance or mixture ALUMINIUM OXIDE(1344-28-1.) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Exposure Standards Australia Inventory of Chemical Substances (AICS) WHITE MINERAL OIL (PETROLEUM)(8042-47-5) IS FOUND 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 GLYCEROL(56-81-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Exposure Standards Australia Inventory of Chemical Substances (AICS)

Australia Inventory of Chemical Substances (AICS)

POLYTETRAFLUOROETHYLENE(9002-84-0) IS FOUND ON THE FOLLOWING **REGULATORY LISTS**

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

Australia Inventory of Chemical Substances (AICS)	
National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (polytetrafluoroethylene; glycerol; water; aluminium oxide; white mineral oil (petroleum))
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (polytetrafluoroethylene)
Japan - ENCS	N (polytetrafluoroethylene; glycerol; water; aluminium oxide; white mineral oil (petroleum))
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)

Monographs

SECTION 16 OTHER INFORMATION

Other information

Ingredients with multiple cas numbers

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 Name
 CAS No

 glycerol
 56-81-5, 29796-42-7, 30049-52-6, 37228-54-9, 75398-78-6, 78630-16-7, 8013-25-0

 Classification of the properties and its individual components has drawn as official and authoritative sources as well as independent review by the Champatele Classification

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.