

Urethane Coatings a division of Era Polymers Pty Ltd

Version No: 2.3

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: 07/12/2020 Print Date: 07/12/2020 S.GHS.AUS.EN

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

Product Identifier

Product name	TUNGSEAL
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

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

Relevant identified uses	Sealer and finish for timber, parquetry, or cork flooring.

Details of the supplier of the safety data sheet

Registered company name	Urethane Coatings a division of Era Polymers Pty Ltd
Address	2-4 Green Street, BANKSMEADOW NSW 2019 Australia
Telephone	+61 (0)2 9666 3888
Fax	+61 (0)2 9666 4805
Website	www.urethanecoatings.com.au
Email	george@urethanecoatings.com.au

Emergency telephone number

Association / Organisation	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	+61 2 9186 1132
Other emergency telephone numbers	+61 1800 951 288

Once connected and if the message is not in your prefered language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

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

Poisons Schedule	S5
Classification ^[1]	Flammable Liquid Category 3, Specific target organ toxicity - repeated exposure Category 1, Aspiration Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	
Signal word	Danger

Hazard statement(s)

H226	Flammable liquid and vapour.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

TUNGSEAL

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.

Precautionary statement(s) Prevention

Precautionary statement(s) Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P260	Do not breathe mist/vapours/spray.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
P314	Get medical advice/attention if you feel unwell.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

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	
64742-82-1.	30-60	naphtha. petroleum. hydrodesulfurised heavy	
Not Available	to 100	All other substances - non-hazardous	

SECTION 4 First aid measures

Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. 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.
Skin Contact	 If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice. Avoid giving milk or oils. Avoid giving alcohol.

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours. 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.
- 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	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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	 Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Moderate explosion hazard when exposed to heat or flame. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic material. 		
HAZCHEM	•3Y		

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

	 Remove all ignition sources. Clean up all spills immediately.
Minor Spills	 Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb small quantities with vermiculite or other absorbent material. Wipe up.
	Collect residues in a flammable waste container.
	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.
Major Spills	 May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course.

 Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse /absorb vapour. Contain spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect recoverable product with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
Collect solid residues and seal in labelled drums for disposal.
 Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	The conductivity of this material may make it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m, whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. I containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <=7 m/sec). Avoid splash filling. Do NOT use compressed air for filling discharging or handling operations. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-wentilated area. Prevent concentration in hollows and sumps. Do NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Vooid generation of static electricity. Do NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid peneration of static electricity. Do NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid peneration of static electricity. Do NOT use plastic buckets. Earth all lines and equipment. Use spark-free tools when handling. Avoid peneration of the laundered separately. Use good occupational work practice. Avoid physical damage to containers. Avoid physical damage t
Other information	 Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Storage areas should be clearly identified, well illuminated, clear of obstruction and accessible only to trained and authorised personnel - adequate security must be provided so that unauthorised personnel do not have access. Store according to applicable regulations for flammable materials for storage tanks, containers, piping, buildings, rooms, cabinets, allowable quantities and minimum storage distances. Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems. Have appropriate extinguishing capability in storage area (e.g. portable fire extinguishers - dry chemical, foam or carbon dioxide) and flammable gas detectors. Keep adsorbents for leaks and spills readily available. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. In addition, for tank storages (where appropriate): Store in grounded, properly designed and approved vessels and away from incompatible materials. For bulk storages, consider use of floating roof or nitrogen blanketed vessels; where venting to atmosphere is possible, equip storage tank vents with flame arrestors; inspect tank vents during winter conditions for vapour/ ice build-up. Storage tanks should be above ground and diked to hold entire contents.

Conditions for safe storage, including any incompatibilities

Suitable container	 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. Check that containers are clearly labelled and free from leaks. For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) For manufactured product having a viscosity of at least 250 cSt. (23 deg. C) Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.

	 Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
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	naphtha, petroleum, hydrodesulfurised heavy	White spirits	790 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
naphtha, petroleum,	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	350	1,800	40,000
hydrodesulfurised heavy		mg/m3	mg/m3	mg/m3
naphtha, petroleum,	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petroleum) light aliphatic, rubber solvent (64742-89-8), heaevy catalytic cracked (64741-54-4), light straight run (64741-46-4), heavy aliphatic solvent (64742-96-7), high flash aromatic and aromatic solvent naphtha (64742-95-6)	1,200	6,700	40,000
hydrodesulfurised heavy		mg/m3	mg/m3	mg/m3
naphtha, petroleum,	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petroleum) light aliphatic, rubber solvent (64742-89-8), heaevy catalytic cracked (64741-54-4), light straight run (64741-46-4), heavy aliphatic solvent (64742-96-7), high flash aromatic and aromatic solvent naphtha (64742-95-6)	1,200	6,700	40,000
hydrodesulfurised heavy		mg/m3	mg/m3	mg/m3
naphtha, petroleum,	petroleum spirits 1644 / 5-85-01 Soltrol VMXP paphtha 18032-32-41. Ligroine and paint solvent		1,800	40,000
hydrodesulfurised heavy			mg/m3	mg/m3
naphtha, petroleum,			6,700	40,000
hydrodesulfurised heavy			mg/m3	mg/m3
phtha, petroleum, drodesulfurised heavy drodesulfurised heavy		1,100 mg/m3	1,800 mg/m3	40,000 mg/m3
naphtha, petroleum,	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)		1,800	29500**
hydrodesulfurised heavy			mg/m3	mg/m3
Ingredient	gredient Original IDLH			
naphtha, petroleum, hydrodesulfurised heavy	20 000 mg/m3 / 1 100 ppm / 1 000 ppm			

Exposure controls

	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls car 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. For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant.			
Appropriate engineering controls	Type of Contaminant:			
condois	solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)		
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)		
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)		
	Within each range the appropriate value depends on:			

	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity				
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-local control only			
	Simple theory shows that air velocity falls rapidly with distar with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contaminal 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	ple cases). Therefore the air speec ting source. The air velocity at the e d in a tank 2 meters distant from th xtraction apparatus, make it essent	at the extraction point should be adjusted, extraction fan, for example, should be a minimum of e extraction point. Other mechanical		
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. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 				
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 manufacturer. Where the chemical is a preparation of sever and has therefore to be checked prior to the application. The exact break through time for substances has to be obtate making a final choice. Personal hygiene is a key element of effective hand care. Ge washed and dried thoroughly. Application of a non-perfume Suitability and durability of glove type is dependent on usage frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN When prolonged or frequently repeated contact may 240 minutes according to EN 374, AS/NZS 2161.10.1 or na When only brief contact is expected, a glove with a p EN 374, AS/NZS 2161.10.1 or national equivalent) is recom Some glove polymer types are less affected by mover use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves ar Excellent when breakthrough time > 480 min Good when breakthrough time > 20 min Fair when breakthrough time > 20 min Fair when breakthrough time > 20 min Poor when glove will be dependent on the exact comp consideration of the task requirements and knowledge of b Glove thickness may also vary depending on the glove mar technical data should always be taken into account to ensu Note: Depending on the activity being conducted, gloves of Thinner gloves (down to 0.1 mm or less) may be required or puncture potential Gloves must only be worn on clean hands. After using glovy moisturiser is recommended. 	ral substances, the resistance of the ained from the manufacturer of the Sloves must only be worn on clean d moisturiser is recommended. ge. Important factors in the selection I 374, US F739, AS/NZS 2161.1 or occur, a glove with a protection cla titonal equivalent) is recommended rotection class of 3 or higher (breal mended. ment and this should be taken into e rated as: reater than 0.35 mm, are recomme arily a good predictor of glove resis osition of the glove material. There reakthrough times. hufacturer, the glove type and the g re selection of the most appropriate varying thickness may be required uired where a high degree of manu ally be just for single use applicatio d where there is a mechanical (as w	e glove material can not be calculated in advance protective gloves and has to be observed when hands. After using gloves, hands should be in of gloves include: "national equivalent). Iss of 5 or higher (breakthrough time greater than kthrough time greater than 60 minutes according to account when considering gloves for long-term ended. tance to a specific chemical, as the permeation fore, glove selection should also be based on love model. Therefore, the manufacturers' a glove for the task. If or specific tasks. For example: al dexterity is needed. However, these gloves are ins, then disposed of. well as a chemical) risk i.e. where there is abrasion		
Body protection	See Other protection below				
Other protection	 Overalls. PVC Apron. PVC protective suit may be required if exposure severe. Eyewash unit. Ensure there is ready access to a safety shower. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets). Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued 				

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conductive footwear should not wear them from their place of work to their homes and return.

Respiratory protection

Type A 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.

Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
A-AUS / Class 1	-	A-PAPR-AUS / Class 1
Air-line*	A-2	A-PAPR-2
-	A-3	-
-	Air-line**	-
	A-AUS / Class 1 Air-line* -	A-AUS / Class 1 - Air-line* A-2 - A-3

* - Continuous-flow; ** - Continuous-flow or positive pressure demand

^ - 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)

+ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear yellow liquid		
Physical state	Liquid	Relative density (Water = 1)	0.89
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	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 Available
Flash point (°C)	37	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	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	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 Stability and reactivity

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

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational

Skin Contact Information of the the used the material and ensure that any external damage is sublaby protected. Arrange in sublab in the control of the CD Directives. There is corres evidence to be madering that information and damage in some persons. Description of labor is and excrete and excrete and intervent in the body through the skin but Arrange in protein its intervent to suggest that this material can accuse eve inflation and damage in some persons. Description of the product is not though to produce dronce depletelum may be temporarily damaged. Arrange species can acuse inflation and excretion: There is corres evidence to suggest that this material can cause eve inflation and damage in some persons. Description produce thore is defined as a material or corres. There is corres evidence to suggest that this material can cause eve inflation and damage in some persons. Description produce thore is defined as a material or cores. Toxic: charge of serious damage to bealth by protopad exposure through inhalation, in contract wish is and if seallowed. The is a corres evidence and investore is produce to thore periods. It can be assumed that it contains a substance which can produce server deficits. Toxic: charge of serious damage is onlike hydrocarbons may produce stuper with dizzines, weakness and visual disting if in on (rat) LDSD: -45000 mg/kg[11 Drat (rat) LDSD: -45000 mg/kg[12 Drat (rat) LDSD: -55070 mg/kg[12 Drat (rat) LDSD: -55070 mg/kg[13 Drat (rat) LDSD: -55070 mg/kg[14 Drat (rat) LDSD: -55070 mg/kg[15 Drat (rat) LDSD: -55070 mg/kg[16 Drat (rat) LDSD: -55070 mg/kg[17 Drat (rat) LDSD: -56000 mg/kg[17 Drat (rat) LDSD: -5						
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Image: Interface in the interface of the classified by EC Directives or other classification systems as harmful by ingestion: This is because of the lack of performance of the interface of the classification systems and some meetings and close of the interface of the classification systems and some meetings and close of the interface of the classification systems and some meetings and close of the interface of the classification systems and some meetings and close of the interface of the classification systems and some meetings and close of the classification system and share weeknes, dictions, since and share weeknes, dictions, since and some meeting and close to suggest that this material can cause influences. There is an one electric to suggest that this material can cause influences. There is an one electric to suggest that this material can cause influences. There is an one electric construction is an one persons. There is and evaluation and weekness distribution of the size of the interface of the lass of the lass of the interface of the lass of the lass of the interface of the lass of the		dizziness, slowing of reflexes, fatigue and inco-ordination Inhalation of aerosols (mists, fumes), generated by the m		•		
There is some evidence to suggest that this material can cause inflammation of the skin on contain ingive with instandal density of the sequence to this material subschering is subschering to a skin excertion ingive with instandal density is subschering is subschering to a skin excertion density is subschering the skin. They are not likely to be absorted into the body through the skin but	Ingestion	(ICSC13733) The material has NOT been classified by EC Directives o corroborating animal or human evidence. Ingestion of petroleum hydrocarbons can irritate the phan mucous. Symptoms include a burning mouth and throat; I and shallow breathing, abdominal swelling, unconsciousn	r other classification systems as ynx, oesophagus, stomach and larger amounts can cause nause ness and convulsions.	'harmful by ingestion'. This is because of the lack of small intestine, and cause swellings and ulcers of the		
Eye Direct eye contact with pertoisum hydrocarbons can be pairful, and the coneal epithelium may be temporarily damaged. Aromatic species can assert as incretation and excessive tear secretion. Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models), nevertheless exposure by all routes should be minimised as a matter of course. Chronic Trunce effects. TUNGSELL Toxic: Try IRRITATION Diract (a): Constant or exposure over (an exposure though the produce chronic estupor with dizziness, weakness and visual disturbance, weight it and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redeness of the skin. TUNGSELL TOXICITY IRRITATION Diract (a): LDS0: >4500 mg/kg ¹¹ Eye: no adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >4500 mg/kg ¹¹ Skin: adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: no adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: no adverse effect observed (intritating) ¹¹ Oral (rat) LDS0: >5000 mg/kg ¹¹ Skin: no adverse effect observed (intritating) ¹¹ Oral (rat) LDS0	Skin Contact	There is some evidence to suggest that this material can Open cuts, abraded or irritated skin should not be expose Entry into the blood-stream, through, for example, cuts, al prior to the use of the material and ensure that any extern The liquid may be able to be mixed with fats or oils and m dermatitis. The material is unlikely to produce an irritant d The material may accentuate any pre-existing dermatities Aromatic hydrocarbons may produce sensitivity and redm	There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. 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. 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 Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but			
Image: Space of the space	Eye	Direct eye contact with petroleum hydrocarbons can be p				
TUNGSEAL Not Available Not Available naphtha, petroleum, hydrodesulfurised heavy TOXICITY IRRITATION Oral (rat) LD50: >45000 mg/kg ¹¹ Eye: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >5570 mg/kg ¹¹ Skin: adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >5570 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >5570 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >56000 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >56000 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >6000 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Oral (rat) LD50: >6000 mg/kg ¹¹ Skin: no adverse effect observed (not irritating) ¹¹ Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURISED No significant acute toxicological data identified in literature search. TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURSED No significant acute toxicological data identified in literature search. TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURSED No significant acute toxicological data ide	Chronic	models); nevertheless exposure by all routes should be m Toxic: danger of serious damage to health by prolonged e This material can cause serious damage if one is exposed produce severe defects. Constant or exposure over long periods to mixed hydroca	ninimised as a matter of course. exposure through inhalation, in c d to it for long periods. It can be arbons may produce stupor with	ontact with skin and if swallowed. assumed that it contains a substance which can dizziness, weakness and visual disturbance, weight los		
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Oral (rat) LD50: >6000 mg/kg ^[1] Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY No significant acute toxicological data identified in literature search. 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 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 to the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons may appear unchanged as in the lipoprotein particles in the gut ymph, but most hydrocarbons party 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 stor or the liver. Acute Toxicity X Carcinogenicity X Skin Irritation/Corrosion X STOT - Single Exposure X	naphtha, petroleum,					
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Skin Irritation/Corrosion X erious Eye Damage/Irritation X Respiratory or Skin X STOT - Repeated Exposure	hydrodesulfurised heavy Legend: NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY	Oral (rat) LD50: >5000 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >6000 mg/kg ^[1] Oral (rat) LD50: >6000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Substanspecified data extracted from RTECS - Register of Toxic I No significant acute toxicological data identified in literatue	Skin: adverse effect observed Skin: no adverse effect observ nces - Acute toxicity 2.* Value of Effect of chemical Substances	(irritating) ^[1] red (not irritating) ^[1] ptained from manufacturer's SDS. Unless otherwise		
Skin Irritation/Corrosion X erious Eye Damage/Irritation X Respiratory or Skin X STOT - Repeated Exposure	hydrodesulfurised heavy <i>Legend:</i> NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY	Oral (rat) LD50: >5000 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >6000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Substan specified data extracted from RTECS - Register of Toxic I No significant acute toxicological data identified in literatu Animal studies indicate that normal, branched and cyclic n-paraffins is inversely proportional to the carbon chain le be present in mineral oil, n-paraffins may be absorbed into The major classes of hydrocarbons are well absorbed in the dut lymph, but most hydrocarbons partly separate from fa determining the proportion of hydrocarbon that becomes	Skin: adverse effect observed Skin: no adverse effect observed Skin: no adverse effect observed nces - Acute toxicity 2.* Value of Effect of chemical Substances research. paraffins are absorbed from the ength, with little absorption above a greater extent than iso- or cyc o the gastrointestinal tract in vari diet. Some hydrocarbons may a tts and undergo metabolism in th	(irritating) ^[1] red (not irritating) ^[1] ptained from manufacturer's SDS. Unless otherwise gastrointestinal tract and that the absorption of c C30. With respect to the carbon chain lengths likely to lo-paraffins. ous species. In many cases, the hydrophobic opear unchanged as in the lipoprotein particles in the re gut cell. The gut cell may play a major role in		
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SIQL-Repeated Exposure	hydrodesulfurised heavy <i>Legend:</i> NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY Acute Toxicity	Oral (rat) LD50: >5000 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >6000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Substanspecified data extracted from RTECS - Register of Toxic I No significant acute toxicological data identified in literatu Animal studies indicate that normal, branched and cyclic n-paraffins is inversely proportional to the carbon chain le be present in mineral oil, n-paraffins may be absorbed to The major classes of hydrocarbons are well absorbed to thydrocarbons are ingested in association with fats in the egut lymph, but most hydrocarbons partly separate from fat determining the proportion of hydrocarbon that becomes or the liver.	Skin: adverse effect observed Skin: no adverse effect observed Skin: no adverse effect observed Inces - Acute toxicity 2.* Value of Effect of chemical Substances affect of chemical Substances research. paraffins are absorbed from the ength, with little absorption above a greater extent than iso- or cyc or the gastrointestinal tract in vari diet. Some hydrocarbons may a tts and undergo metabolism in the available to be deposited unchar Carcinogenicity	(irritating) ^[1] red (not irritating) ^[1] potained from manufacturer's SDS. Unless otherwise gastrointestinal tract and that the absorption of c C30. With respect to the carbon chain lengths likely to lo-paraffins. ous species. In many cases, the hydrophobic opear unchanged as in the lipoprotein particles in the e gut cell. The gut cell may play a major role in nged in peripheral tissues such as in the body fat store		
sensitisation	hydrodesulfurised heavy Legend: Legend: NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY TUNGSEAL & NAPHTHA, PETROLEUM, HYDRODESULFURISED HEAVY Acute Toxicity Skin Irritation/Corrosion	Oral (rat) LD50: >5000 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >5570 mg/kg ^[1] Oral (rat) LD50: >6000 mg/kg ^[1] 1. Value obtained from Europe ECHA Registered Substates specified data extracted from RTECS - Register of Toxic I No significant acute toxicological data identified in literatu Animal studies indicate that normal, branched and cyclic n-paraffins is inversely proportional to the carbon chain le be present in mineral oil, n-paraffins may be absorbed to The major classes of hydrocarbons are well absorbed inth hydrocarbons are ingested in association with fats in the gut lymph, but most hydrocarbons partly separate from fa determining the proportion of hydrocarbon that becomes are or the liver. X	Skin: adverse effect observed Skin: no adverse effect observed Skin: no adverse effect observed Inces - Acute toxicity 2.* Value of Effect of chemical Substances are search. In the absorbed from the ength, with little absorption above a greater extent than iso- or cyc o the gastrointestinal tract in vari diet. Some hydrocarbons may a the and undergo metabolism in the available to be deposited unchar Carcinogenicity Reproductivity	(irritating) ^[1] red (not irritating) ^[1] ptained from manufacturer's SDS. Unless otherwise gastrointestinal tract and that the absorption of c C30. With respect to the carbon chain lengths likely to io-paraffins. ous species. In many cases, the hydrophobic opear unchanged as in the lipoprotein particles in the re gut cell. The gut cell may play a major role in nged in peripheral tissues such as in the body fat store X		

Mutagenicity × Aspiration Hazard

Legend:

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

SECTION 12 Ecological information

Toxicity

TUNGSEAL	Endpoint	Test Duration (hr)		Species	Value	S	ource
TUNGSEAL	Not Available	Not Available		Not Available	Not Available	N	ot Available
	Endpoint	Test Duration (hr)	Speci	25		Value	Source
	EC50	72		or other aquatic plants	6	=13mg/L	1
	NOEC	72	Algae	or other aquatic plants	5	=0.1mg/L	1
	LC50	96	Fish			4.1mg/L	2
	EC50	48	Crusta	cea		4.5mg/L	2
	EC50	72	Algae	or other aquatic plants	5	>1-mg/L	2
	NOEL	72	Algae	or other aquatic plants	;	0.1mg/L	2
	LC50	96	Fish			4.1mg/L	2
	EC50	48	Crusta	cea		4.5mg/L	2
	EC50	72	Algae	or other aquatic plants	;	>1-mg/L	2
	NOEL	72	Algae	or other aquatic plants	5	0.1mg/L	2
	LC50	96	Fish			18mg/L	2
	EC50	48	Crusta	cea		1.4mg/L	2
	EC50	72	Algae	or other aquatic plants	•	3.7mg/L	2
	NOEL	96	Algae	or other aquatic plants	5	0.2mg/L	2
naphtha, petroleum, hydrodesulfurised heavy	LC50	96	Fish			4.1mg/L	2
	EC50	48	Crusta	cea		4.5mg/L	2
	EC50	72	Algae	or other aquatic plants	;	>1-mg/L	2
	NOEC	72	Algae	or other aquatic plants		<0.1mg/L	1
	NOEC	192	Crusta	cea		=5mg/L	1
	LC50	96	Fish			4.1mg/L	2
	EC50	48	Crusta	cea		4.5mg/L	2
	EC50	72	Algae	or other aquatic plants	;	>1-mg/L	2
	NOEC	72	Algae	or other aquatic plants	•	<0.1mg/L	1
	LC50	96	Fish	Fish		4.1mg/L	2
	EC50	48	Crusta	cea		4.5mg/L	2
	EC50	72	Algae	or other aquatic plants	5	>1-mg/L	2
	NOEC	72	Algae	or other aquatic plants	5	<0.1mg/L	1
	LC50	96	Fish			0.14mg/L	2
	EC50	96	Algae	or other aquatic plants	5	0.277mg/L	2
	NOEC	720	Fish			0.02mg/L	2

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA. Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the oxygen transfer between the air and the water

Oils of any kind can cause:

drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility

lethal effects on fish by coating gill surfaces, preventing respiration asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and

adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation

For petroleum distillates:

Environmental fate:

When petroleum substances are released into the environment, four major fate processes will take place: dissolution in water, volatilization, biodegradation and adsorption. These processes will cause changes in the composition of these UVCB substances. In the case of spills on land or water surfaces, photodegradation-another fate process-can also be significant.

As noted previously, the solubility and vapour pressure of components within a mixture will differ from those of the component alone. These interactions are complex for complex UVCBs such as petroleum hydrocarbons.

Each of the fate processes affects hydrocarbon families differently. Aromatics tend to be more water-soluble than aliphatics of the same carbon number, whereas aliphatics tend to be more volatile. Thus, when a petroleum mixture is released into the environment, the principal water contaminants are likely to be aromatics, whereas aliphatics will be the principal air contaminants. The trend in volatility by component class is as follows: alkenes = alkanes > aromatics = cycloalkanes.

The most soluble and volatile components have the lowest molecular weight; thus there is a general shift to higher molecular weight components in residual materials.

Biodegradation:

Biodegradation is almost always operative when petroleum mixtures are released into the environment. It has been widely demonstrated that nearly all soils and sediments have populations of bacteria and other organisms capable of degrading petroleum hydrocarbons Degradation occurs both in the presence and absence of oxygen. Two key factors that determine degradation rates are oxygen supply and molecular structure. In general, degradation is more rapid under aerobic conditions. Decreasing trends in degradation rates according to structure are as follows:

(1) n-alkanes, especially in the C10-C25 range, which are degraded readily;

(2) isoalkanes;

(3) alkenes;

(4) benzene, toluene, ethylbenzene, xylenes (BTEX) (when present in concentrations that are not toxic to microorganisms);

(5) monoaromatics;

(6) polynuclear (polycyclic) aromatic hydrocarbons (PAHs); and

(7) higher molecular weight cycloalkanes (which may degrade very slowly

Three weathering processes-dissolution in water, volatilization and biodegradation-typically result in the depletion of the more readily soluble, volatile and degradable compounds and the accumulation of those most resistant to these processes in residues.

When large quantities of a hydrocarbon mixture enter the soil compartment, soil organic matter and other sorption sites in soil are fully saturated and the hydrocarbons will begin to form a separate phase (a non-aqueous phase liquid, or NAPL) in the soil. At concentrations below the retention capacity for the hydrocarbon in the soil, the NAPL will be immobile this is referred to as residual NAPL. Above the retention capacity, the NAPL becomes mobile and will move within the soil

Bioaccumulation:

Bioaccumulation potential was characterized based on empirical and/or modelled data for a suite of petroleum hydrocarbons expected to occur in petroleum substances. Bioaccumulation factors (BAFs) are the preferred metric for assessing the bioaccumulation potential of substances, as the bioconcentration factor (BCF) may not adequately account for the bioaccumulation potential of substances via the diet, which predominates for substances with log Kow > ~4.5

In addition to fish BCF and BAF data, bioaccumulation data for aquatic invertebrate species were also considered. Biota-sediment/soil accumulation factors (BSAFs), trophic magnification factors and biomagnification factors were also considered in characterizing bioaccumulation potential.

Overall, there is consistent empirical and predicted evidence to suggest that the following components have the potential for high bioaccumulation, with BAF/BCF values greater than 5000: C13–C15 isoalkanes, C12 alkenes, C12–C15 one-ring cycloalkanes, C12 and C15 two-ring cycloalkanes, C14 polycycloalkanes, C15 one-ring aromatics, C15 and C20 cycloalkane monoaromatics, C12–C13 diaromatics, C20 cycloalkane diaromatics, and C14 and C20 three-ring PAHs

These components are associated with a slow rate of metabolism and are highly lipophilic. Exposures from water and diet, when combined, suggest that the rate of uptake would exceed that of the total elimination rate. Most of these components are not expected to biomagnify in aquatic or terrestrial foodwebs, largely because a combination of metabolism, low dietary assimilation efficiency and growth dilution allows the elimination rate to exceed the uptake rate from the diet; however,

one study suggests that some alkyI-PAHs may biomagnify. While only BSAFs were found for some PAHs, it is possible that BSAFs will be > 1 for invertebrates, given that they do not have the same metabolic competency as fish.

In general, fish can efficiently metabolize aromatic compounds. There is some evidence that alkylation increases bioaccumulation of naphthalene but it is not known if this can be generalized to larger PAHs or if any potential increase in bioaccumulation due to alkylation will be sufficient to exceed a BAF/BCF of 5000.

Some lower trophic level organisms (i.e., invertebrates) appear to lack the capacity to efficiently metabolize aromatic compounds, resulting in high bioaccumulation potential for some aromatic components as compared to fish.

This is the case for the C14 three-ring PAH, which was bioconcentrated to a high level (BCF > 5000) by invertebrates but not by fish. There is potential for such bioaccumulative components to reach toxic levels in organisms if exposure is continuous and of sufficient magnitude, though this is unlikely in the water column following a spill scenario due to relatively rapid dispersal

Bioaccumulation of aromatic compounds might be lower in natural environments than what is observed in the laboratory. PAHs may sorb to organic material suspended in the water column (dissolved humic material), which decreases their overall bioavailability primarily due to an increase in size. This has been observed with fish Ecotoxicity:

Diesel fuel studies in salt water are available. The values varied greatly for aquatic species such as rainbow trout and Daphnia magna, demonstrating the inherent variability of diesel fuel compositions and its effects on toxicity. Most experimental acute toxicity values are above 1 mg/L. The lowest 48-hour LC50 for salmonids was 2.4 mg/L. Daphnia magna had a 24-hour LC50 of 1.8 mg/. The values varied greatly for aquatic species such as rainbow trout and Daphnia magna, demonstrating the inherent variability of diesel fuel compositions and its effects on toxicity. Most experimental acute toxicity values are above 1 mg/L. The lowest 48-hour LC50 for salmonids was 2.4 mg/L. Daphnia magna had a 24-hour LC50 of 1.8 mg/L. The lowest 48-hour LC50 for salmonids was 2.4 mg/L. Daphnia magna had a 24-hour LC50 of 1.8 mg/L.

The tropical mysid Metamysidopsis insularis was shown to be very sensitive to diesel fuel, with a 96-hour LC50 value of 0.22 mg/L this species has been shown to be as sensitive as temperate mysids to toxicants. However, However this study used nominal concentrations, and therefore was not considered acceptable. In another study involving diesel fuel, the effect on brown or common shrimp (Crangon crangon) a 96-hour LC50 of 22 mg/L was determined. A "gas oil"was also tested and a 96-hour LC50 of 12 mg/L was determined The steady state cell density of marine phytoplankton decreased with increasing concentrations of diesel fuel, with different sensitivities between species. The diatom Phaeodactylum tricornutum showed a 20% decrease in cell density in 24 hours following a 3 mg/L exposure with a 24-hour no-observed effect concentration (NOEC) of 2.5 mg/L. The microalga lsochrysis galbana was more tolerant to diesel fuel, with a 24-hour loDEC of 126 mg/L (14% decrease in cell density), and a NOEC of 25 mg/L. Finally, the green algae Chlorella salina was relatively insensitive to diesel fuel contamination, with a 24-hour LOEC of 170 mg/L (27% decrease in cell density), and a NOEC of 160 mg/L. All populations of phytoplankton returned to a steady state within 5 days of exposure

In sandy soils, earthworm (Eisenia fetida) mortality only occurred at diesel fuel concentrations greater than 10 000 mg/kg, which was also the concentration at which sub-lethal weight loss was recorded

Nephrotoxic effects of diesel fuel have been documented in several animal and human studies. Some species of birds (mallard ducks in particular) are generally resistant to the toxic effects of petrochemical ingestion, and large amounts of petrochemicals are needed in order to cause direct mortality

Drinking Water Standards: hydrocarbon total: 10 ug/l (UK max.).

For Hydrocarbons: log Kow 1. BCF~10.

For Aromatics: log Kow 2-3.

BCF 20-200. For C5 and greater alkanes: log Kow 3-4.5. BCF 100-1,500.

For Alkanes, Benzene, Toluene, Ethylbenzene, Xylene (BTEX):

Environmental Fate: Microbes found in many natural settings (e.g., soils, groundwater, ponds) have been shown to be capable of degrading organic compounds. Some hydrocarbons will become associated with marine sediments likely to be spread over a fairly wide area of sea floor. Under aerobic conditions, hydrocarbons degrade to water and carbon dioxide, while under anaerobic processes, they produce water, methane and carbon dioxide. Anaerobic degradation is slower than aerobic. Biodegradation can eliminate the contaminants without dispersing them throughout the environment. The rate of hydrocarbon degradation depends on the chemical composition of the product released to the environment as well as site-specific environmental factors. Hydrocarbons with condensed ring structures, such as PAHs (polycyclic aromatic hydrocarbons) with four or more rings, have been shown to be relatively resistant to biodegradation. PAHs with only 2 or 3 rings (e.g., naphthalene, anthracene) are more easily biodegraded. In almost all cases, the presence of oxygen is essential for effective biodegradation. Straight chain hydrocarbons and aromatics degrade more readily than highly branched aliphatic compounds. The n-alkanes, n-alkyl aromatics, and the aromatics in the C10-C22 range are the most readily biodegradable; n-alkanes, n-alkyl aromatics, and aromatics in the C1-C4 ranges are biodegradable only by a narrow range of specialized hydrocarbon degraders; n-alkanes, n-alkyl aromatics, and aromatics above C22 are generally not available to degrading microorganisms. The ideal pH range to promote biodegradation is close to neutral (6-8). For most species, the optimal pH is slightly alkaline, that is, greater than 7. Generally, as the temperature increases, biological activity tends to increase up to a temperature where enzyme denaturation occurs.

Atmospheric Fate: Alkanes, isoalkanes, and cycloalkanes have half-lives on the order of 1-10 days, whereas alkenes, cycloalkenes, and substituted benzenes have half-lives of 1 day or less. Photochemical oxidation products include aldehydes, hydroxy compounds, nitro compounds, and peroxyacyl nitrates. Alkenes, certain substituted aromatics, and naphthalene are potentially susceptible to direct photolysis.

Aquatic Fate: Volatilization half-life predicted as 7 days (ponds), 1.5 days (rivers), 6 days (lakes). Volatilization rate of naphthalene and its substituted derivatives estimated to be slower. The lower molecular weight hydrocarbons are expected to form a 'slick' on the surface of waters after release in calm seas which is expected to evaporate and enter the atmosphere where it will be degraded through reaction with hydroxy radicals. Ecotoxicity: Effects on freshwater/saltwater organisms: Hydrocarbons are hydrophobic. Such substances produce toxicity in aquatic organisms by a mechanism referred to as 'non-polar narcosis' or 'baseline' toxicity. Toxic effects are often observed in species such as blue mussel, water fleas, freshwater green algae, marine copepods and amphipods.

DO NOT discharge into sewer or waterways

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air	
	No Data available for all ingredients	No Data available for all ingredients	
Bioaccumulative pote	ntial		
Ingredient	Bioaccumulation		
	No Data available for all ingredients		
Mobility in soil			
Ingredient	Mobility		
	No Data available for all ingredients		

SECTION 13 Disposal considerations

Waste treatment methods	
Product / Packaging disposal	 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 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 in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	•3Y

Land transport (ADG)

UN number	1263		
UN proper shipping name	AINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL ncluding paint thinning or reducing compound)		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group	Ш		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions163 223 367Limited quantity5 L		

Air transport (ICAO-IATA / DGR)

)	
UN number	1263	
UN proper shipping name	Paint (including paint, lac thinning or reducing com	cquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint ipounds)
Transport hazard class(es)	ICAO/IATA Class	3 Not Applicable
	ERG Code	3L

Packing group	II		
Environmental hazard	Not Applicable		
	Special provisions	A3 A72 A192	
	Cargo Only Packing Instructions	366	
	Cargo Only Maximum Qty / Pack	220 L	
Special precautions for user	Passenger and Cargo Packing Instructions	355	
	Passenger and Cargo Maximum Qty / Pack	60 L	
	Passenger and Cargo Limited Quantity Packing Instructions	Y344	
	Passenger and Cargo Limited Maximum Qty / Pack	10 L	

Sea transport (IMDG-Code / GGVSee)

UN number	1263	
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable	
Packing group	III	
Environmental hazard	Not Applicable	
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 223 367 955Limited Quantities5 L	

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

naphtha, petroleum, hydrodesulfurised heavy is found on the following regulatory lists

 Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
 Chemicals

 Australian Inventory of Industrial Chemicals (AIIC)
 Intern

Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
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	Yes	
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	07/12/2020
Initial Date	08/12/2016

SDS Version Summary

Version	Issue Date	Sections Updated
1.3.1.1.1	07/12/2020	Ingredients

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

