



# FIL TELL TAIL FLUORO AEROSOL (ALL COLOURS)

# **Damar Industries Limited**

Version No: 2.3

Safety Data Sheet according to the Health and Safety at Work (Hazardous Substances) Regulations 2017

# Chemwatch Hazard Alert Code: 4

Issue Date: **26/02/2025** Print Date: **26/02/2025** S.GHS.NZL.EN

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

Product Identifier				
Product name	FIL TELL TAIL FLUORO AEROSOL (ALL COLOURS)			
Synonyms	CNR3405T; CNR3505T; CNR3605T; CNR3705T; CNR5805T; CNR6405T			
Proper shipping name	AEROSOLS			
Other means of identification	Not Available			

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

Relevant identified uses Marking Animals

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

Registered company name	Damar Industries Limited	FIL ( a part of GEA Technologies)	
Address	800 Te Ngae Road, Eastgate Park, Rotorua 3042 New Zealand	72 Portside Drive, Mt Manganui Tauranga 3116 New Zealand	
Telephone	+64 7 345 6007	+647 575 2162	
Fax	+64 7 345 6019	+64 7 575 2161	
Website	www.damarindustries.com	www.fil.co.nz	
Email info@damarindustries.co.nz		office.fil@gea.com	

# Emergency telephone number

Association / Organisation	CHEMCALL	CHEMCALL	
Emergency telephone number(s)	0800 243 622	NZ-0800 243 622 AU -1800127406	
Other emergency telephone number(s) 1800 127 406 (outside New Zealand)		+64 4 9179888(global)	

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Classification [1]	Aerosols, Hazard Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Determined by Chemwatch using GHS/HSNO criteria	2.1.2A, 6.3A, 9.1B

# Label elements

Hazard pictogram(s)







Signal word

Danger

# Hazard statement(s)

H222+H229	H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.		
H315	Causes skin irritation.		
H411	Toxic to aquatic life with long lasting effects.		

# Precautionary statement(s) Prevention

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P102+P103	Keep out of reach of children. Read label before use.				
P210	eep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
P211	o not spray on an open flame or other ignition source.				
P251	Do not pierce or burn, even after use.				
P273	Avoid release to the environment.				
P280+P264	Wear protective gloves/protective clothing. Wash all exposed external body areas thoroughly after handling.				

## Precautionary statement(s) Response

P391	Collect spillage.			
P302+P352	F ON SKIN: Wash with plenty of water and soap.			
P332+P313	If skin irritation occurs: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			

## Precautionary statement(s) Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

## Precautionary statement(s) Disposal

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		
106-97-8.	25-50	<u>butane</u>		
74-98-6	5-15	propane		
67-64-1	1-15	acetone		
64742-49-0.	20-30	naphtha petroleum, light, hydrotreated		
67-63-0	1-10	isopropanol		
763-69-9	1-5	ethyl-3-ethoxypropionate		
Not Available	1-5	Colour		
14808-60-7	<1	silica crystalline - quartz		
1317-70-0	<5	titanium dioxide		
108-65-6	<1	propylene glycol monomethyl ether acetate, alpha-isomer		
64742-48-9.	<1	naphtha petroleum, heavy, hydrotreated		
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex			

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1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; \* EU IOELVs available

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

## Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.  Generally not applicable.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.  Generally not applicable.
Inhalation	If aerosols, fumes or combustion products are inhaled:  Remove to fresh air.  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.  If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bagvalve mask device, or pocket mask as trained. Perform CPR if necessary.  Transport to hospital, or doctor.  Generally not applicable.
Ingestion	Not considered a normal route of entry.  • Generally not applicable.  • If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

# Indication of any immediate medical attention and special treatment needed

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- · 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.

  Treat symptomatically.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide

#### SMALL FIRE:

Water spray, dry chemical or CO2

#### LARGE FIRE:

Water spray or fog.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters					
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>				
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are highly flammable.</li> <li>Severe fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Severe explosion hazard, in the form of vapour, when exposed to flame or spark.</li> <li>Combustion products include:         <ul> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> </li> <li>Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.</li> <li>Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place.</li> <li>Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.</li> </ul>				

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

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

See section 8

# **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul>
Major Spills	<ul> <li>Clear area of all unprotected personnel and move upwind.</li> <li>Alert Emergency Authority and advise them of the location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear full body clothing with breathing apparatus.</li> <li>Remove leaking cylinders to a safe place.</li> <li>Fit vent pipes. Release pressure under safe, controlled conditions</li> <li>Burn issuing gas at vent pipes.</li> <li>DO NOT exert excessive pressure on valve; DO NOTattempt to operate damaged valve.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> <li>Secure load if safe to do so. Bundle/collect recoverable product.</li> </ul>

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

# **SECTION 7 Handling and storage**

## Precautions for 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 and is considered semi-conductive if its conductivity is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive,

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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. Radon and its radioactive decay products are hazardous if inhaled or ingested 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. Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can

#### Other information

- Store in original containers in approved flammable liquid storage area.
   DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed.
- Store away from incompatible materials.

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

#### Suitable container

Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.

- Aerosol dispenser.
- Check that containers are clearly labelled.

Low molecular weight alkanes are a type of chemical compounds that can be found in gases or liquids. These alkanes:

- ▶ Can cause a dangerous reaction with strong oxidizers, chlorine, chlorine dioxide, and dioxygenyl tetrafluoroborate when there is oxygen and heat present.
- Are incompatible with halogens.
- ▶ Can create static charges due to their low conductivity, leading to an accumulation of static charge.

#### Butane / isobutane:

- reacts violently with strong oxidisers, acetylene, halogens, and nitrous oxides
- Storage incompatibility
- does not mix with chlorine dioxide, nitric acid and some plastics
- may generate electrostatic charges, due to low conductivity, which may ignite vapours Store butane well away from nickel carbonyl in the presence of oxygen between 20-40°C
- ▶ Esters react with acids to liberate heat along with alcohols and acids.
- Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products.
- Heat is also generated by the interaction of esters with caustic solutions
- Flammable hydrogen is generated by mixing esters with alkali metals and hydrides.

## Propane:

- reacts violently with strong oxidisers, barium peroxide, chlorine dioxide, dichlorine oxide, fluorine etc.
- Dissolves some plastics, rubbers, and coatings
- may accumulate static charges which may ignite its vapours
- · Compressed gases may contain a large amount of kinetic energy over and above that potentially available from the energy of reaction produced by the gas in chemical reaction with other substances

#### SECTION 8 Exposure controls / personal protection

#### **Control parameters**

# Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	butane	Butane	800 ppm / 1900 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	propane	Propane	Not Available	Not Available	Not Available	(sax) - Simple asphyxiant - may present an explosion hazard
New Zealand Workplace Exposure Standards (WES)	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	(bio) - Exposure can also be estimated by biological monitoring
New Zealand Workplace Exposure Standards (WES)	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	silica crystalline - quartz	Silica- Crystalline (all forms) respirable dust	0.025 mg/m3	Not Available	Not Available	carcinogen category 1 - Known or presumed human carcinogen; α-quartz and cristobalite are confirmed carcinogens. Significant risk to workers will remain at WES-TWA exposures of 0.025mg/m3. The US Occupational Safety and Health Administration (OSHA) has estimated the lifetime silicosis mortality risk for workers exposed at this level for 8 hours per day at between 4 and 22 deaths per 1,000 workers and the lifetime lung cancer mortality risk for workers exposed at this level for 8 hours per day at between 3 and 23 deaths per 1,000 workers.
New Zealand Workplace Exposure Standards (WES)	titanium dioxide	Inhalable dust (not otherwise classified)	10 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	titanium dioxide	Respirable dust (not otherwise classified)	3 mg/m3	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	naphtha petroleum, heavy, hydrotreated	Oil mist, mineral	5 mg/m3	10 mg/m3	Not Available	(om) - Sampled by a method that does not collect vapour
Ingredient	Original IDLH	Original IDLH Rev				Revised IDLH
butane	Not Available	Not Available				Not Available

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Ingredient	Original IDLH	Revised IDLH
propane	Not Available	Not Available
acetone	2,500 ppm	Not Available
naphtha petroleum, light, hydrotreated	Not Available	Not Available
isopropanol	Not Available	Not Available
ethyl-3-ethoxypropionate	Not Available	Not Available
silica crystalline - quartz	25 mg/m3 / 50 mg/m3	Not Available
titanium dioxide	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available	Not Available
naphtha petroleum, heavy, hydrotreated	2,500 mg/m3	Not Available

#### **Exposure controls**

#### Appropriate engineering controls

Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment

#### Individual protection measures, such as personal protective equipment









- Safety glasses with side shields
- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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.
- Close fitting gas tight goggles

#### Eye and face protection

• Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens 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.

No special equipment required due to the physical form of the product.

#### Skin protection

#### See Hand protection below

- For esters: Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials
  - No special equipment needed when handling small quantities.
- OTHERWISE: Hands/feet protection
  - ▶ For potentially moderate exposures:
    - Wear general protective gloves, eg. light weight rubber gloves.
    - ▶ For potentially heavy exposures:
    - Wear chemical protective gloves, eg. PVC. and safety footwear.

No special equipment required due to the physical form of the product.

#### **Body protection**

## See Other protection below

# Other protection

- The clothing worn by process operators insulated from earth may develop static charges far higher (up to 100 times) than the minimum ignition energies for various flammable gas-air mixtures. This holds true for a wide range of clothing materials including cotton.
- Avoid dangerous levels of charge by ensuring a low resistivity of the surface material worn outermost. BRETHERICK: Handbook of Reactive Chemical Hazards

#### No special equipment needed when handling small quantities OTHERWISE:

### Overalls

- Skin cleansing cream.
- ▶ Eyewash unit

No special equipment required due to the physical form of the product.

# 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 *computer*generated selection:

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Material	CPI
PE/EVAL/PE	A
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С

#### Respiratory protection

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

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

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AX-AUS	-	AX-PAPR-AUS / Class 1
up to 50 x ES	-	AX-AUS / Class 1	-
up to 100 x ES	-	AX-2	AX-PAPR-2 ^

## ^ - 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

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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)

Respiratory protection not normally required due to the physical form of the product.

NEOPRENE	C
NITRILE	С
NITRILE+PVC	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON/NEOPRENE	С

<sup>\*</sup> CPI - Chemwatch Performance Index

A: Best Selection

NEODDENE

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

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as 'feel' or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

▶ Generally not applicable.

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

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#### **SECTION 9 Physical and chemical properties**

	Information	on basic	physical	and chemica	I properties
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in ormation on basis physical t	and one mount properties		
Appearance	Aerosol, red		
Physical state	Article	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	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)	-81	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	10	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	1.5	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	Elevated temperatures. Presence of open flame. 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**

· · · · · · · · · · · · · · · · · · ·	
a) Acute Toxicity	Based on available data, the classification criteria are not met.
b) Skin Irritation/Corrosion	There is sufficient evidence to classify this material as skin corrosive or irritating.

B: Satisfactory; may degrade after 4 hours continuous immersion

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

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c) Serious Eye Based on available data, the classification criteria are not met Damage/Irritation d) Respiratory or Skin Based on available data, the classification criteria are not met. sensitisation e) Mutagenicity Based on available data, the classification criteria are not met. f) Carcinogenicity Based on available data, the classification criteria are not met. g) Reproductivity Based on available data, the classification criteria are not met. h) STOT - Single Exposure Based on available data, the classification criteria are not met. i) STOT - Repeated Exposure Based on available data, the classification criteria are not met. j) Aspiration Hazard Based on available data, the classification criteria are not met. The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur. Isobutane produces a dose dependent action and at high concentrations may cause numbness, suffocation, exhilaration, dizziness, headache, nausea, confusion, incoordination and unconsciousness in severe cases The paraffin gases are practically not harmful at low doses. Higher doses may produce reversible brain and nerve depression and irritation. The vapour is discomforting WARNING: Intentional misuse by concentrating/inhaling contents may be lethal. Nerve damage can be caused by some non-ring hydrocarbons. Symptoms are temporary, and include weakness, tremors, increased saliva, some convulsions, excessive tears with discolouration and inco-ordination lasting up to 24 hours. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and Inhaled replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal. The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of the nose and throat with sneezing, sore throat and runny nose Exposure to hydrocarbons may result in irregularity of heart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. If exposure to highly concentrated atmosphere of gas is prolonged this may lead to narcosis, unconsciousness, even coma and unless resuscitated - death Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Isoparaffinic hydrocarbons cause temporary lethargy, weakness, inco-ordination and diarrhoea. Ingestion of petroleum hydrocarbons can irritate the pharynx, oesophagus, stomach and small intestine, and cause swellings and ulcers of the mucous. Symptoms include a burning mouth and throat; larger amounts can cause nausea and vomiting, narcosis, weakness, dizziness, Ingestion slow and shallow breathing, abdominal swelling, unconsciousness and convulsions. Swallowing 10 millilitres of isopropanol may cause serious injury; 100 millilitres may be fatal if not properly treated. The adult single lethal dose is approximately 250 millilitres. Isopropanol is twice as poisonous as ethanol, and the effects caused are similar, except that isopropanol does not cause an initial feeling of well-being. Swallowing may cause nausea, vomiting and diarrhea; vomiting and stomach inflammation is more prominent with isopropanol than with ethanol Accidental ingestion of the material may be damaging to the health of the individual. This material can cause inflammation of the skin on contact in some persons The material may accentuate any pre-existing dermatitis condition Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. Skin exposure to isoparaffins may produce slight to moderate irritation in animals and humans. Rare sensitisation reactions in humans have occurred Open cuts, abraded or irritated skin should not be exposed to this material Skin Contact 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. Spray mist may produce discomfort Isopropanol, also known as IPA, is a chemical that has low toxicity when it comes to immediate exposure. It can irritate the eyes and cause discomfort in high concentrations of its vapors. Prolonged exposure to these vapors can lead to depression of the central nervous system. Some people may experience irritation or sensitivity on their skin when using isopropanol. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. This material can cause eye irritation and damage in some persons Instillation of isoparaffins into rabbit eyes produces only slight irritation. Not considered to be a risk because of the extreme volatility of the gas Direct eye contact with petroleum hydrocarbons can be painful, and the corneal epithelium may be temporarily damaged. Aromatic species Eve can cause irritation and excessive tear secretion. Isopropanol vapour may cause mild eye irritation at 400 parts per million. Splashes may cause severe eye irritation, possible burns to the cornea and eye damage. Eye contact may cause tearing and blurring of vision. Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems. Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin. Main route of exposure to the gas in the workplace is by inhalation. Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness. Chronic Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration. Animal data show developmental effects only at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. TOXICITY IRRITATION **FIL TELL TAIL FLUORO** AEROSOL (ALL COLOURS) Not Available Not Available

butane

TOXICITY

Continued	
Continued	

IRRITATION

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	Inhalation (Rat) LC50: 658 mg/l4h <sup>[2]</sup>		Not Available
	TOXICITY		IRRITATION
propane	Inhalation (Rat) LC50: 364726.819 ppm4h <sup>[2]</sup>		Not Available
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 20000 mg/kg <sup>[2]</sup>	Eye (Human): 186300ppm - Mild	
	Inhalation (Mouse) LC50: 44 mg/L4h <sup>[2]</sup>	Eye (Human): 500ppm	
	Oral (Rat) LD50: 5800 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 10uL - Mild	d
acetone		Eye (Rodent - rabbit): 20mg - Se	vere
		Eye (Rodent - rabbit): 20mg/24H	
		Eye: adverse effect observed (irr	
		Skin (Rodent - rabbit): 395mg - M Skin (Rodent - rabbit): 500mg/24	
		Skin: no adverse effect observed	
		Skill. Ho adverse ellect observed	r (not imtaurig).
	TOXICITY	IRRITATION	
naphtha petroleum, light,	dermal (rat) LD50: 3.35 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (	(not irritating) <sup>[1]</sup>
hydrotreated	Inhalation (Rat) LC50: 0.26 mg/L4h <sup>[2]</sup>	Skin: adverse effect observed (irri	itating) <sup>[1]</sup>
	Oral (Rat) LD50: 16.75 mg/kg <sup>[2]</sup>		
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 12800 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 100mg - S	evere
	Inhalation (Mouse) LC50: 53 mg/L4h <sup>[2]</sup>		
isopropanol	Oral (Mouse) LD50; 3600 mg/kg <sup>[2]</sup>	Eye (Rodent - rabbit): 100mg/24H - Moderate  Eye (Rodent - rabbit): 10mg - Moderate	
	Crar (mease) 22 co, cook mg/mg	Eye (Rodent - rabbit): 10mg - Moderate  Eye: adverse effect observed (irritating) <sup>[1]</sup>	
		Eye: adverse effect observed (irritating) <sup>1-1</sup> Skin (Rodent - rabbit): 500mg - Mild	
	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		I (not irritating) <sup>[1]</sup>
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 4076 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed	(not irritating)[1]
ethyl-3-ethoxypropionate	Inhalation (Rat) LC50: 1250 ppm4h <sup>[2]</sup>		
	Oral (Rat) LD50: ~3200-5000 mg/kg <sup>[2]</sup>	, , , , , , , , , , , , , , , , , , , ,	
	Oral (Rat) LD30. ~3200-3000 Hig/kgt 7	Skill. Ho adverse effect observed	(not imitating). 1
silica crystalline - quartz	TOXICITY	ı	IRRITATION
Silica Crystailille - quartz	Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>	I	Not Available
	TOXICITY		IRRITATION
	Inhalation (Rat)TCLo: 0.04 mg/kg <sup>[2]</sup>		Not Available
	Oral (Mouse)LD50; >10000 mg/kg * <sup>[2]</sup>		
titanium dioxide	Oral (Mouse)TDLo: 0.0032 mg/kg <sup>[2]</sup>		
	Oral (Rat)LD50: >20000 mg/kg *[2]		
	Oral (Rat)TDLo: 60000 mg/kg <sup>[2]</sup>		
propylene glycol	TOXICITY	IRRITATION	F41
monomethyl ether acetate, alpha-isomer	dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Eye: no adverse effect observed (not irritat		
	Oral (Rat) LD50: 3739 mg/kg <sup>[2]</sup>	Skin: no adverse effect observed (no	t irritating) <sup>[1]</sup>
	TOXICITY		IRRITATION
	Dermal (Rat)LC50: >11 mg/l <sup>[2]</sup>		Not Available
naphtha petroleum, heavy, hvdrotreated	Dermal (Rat)LD50: >4000 mg/kg <sup>[2]</sup>		
hydrotreated	Inhalation (Rat) LC50: 3400 ppm/4h <sup>[2]</sup>		
	Inhalation (Rat) LC50: 3400 ppm/4h <sup>[2]</sup>		

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#### FIL TELL TAIL FLUORO AEROSOL (ALL COLOURS)

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise Legend: specified data extracted from RTECS - Register of Toxic Effect of chemical Substances PROPANE No significant acute toxicological data identified in literature search. The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye. ACETONE Animal testing shows acetone may cause anaemia. Studies in humans have shown that exposure to acetone at a level of 2375 mg/m3 does not negatively impact an individual's emotional regulation, behaviour, or learning ability. DHC Solvent Chemie (for EC No.: 926-605-8) Most Low Boiling Point Naphthas (LBPNs) have low actute toxicity to oral, dermal and inhalation routes of exposure, and mild to moderate skin and eye irritating effects. However, some heavier 'cracked' LBPNs (LKBPNs with greater olefinic content) have been found to be more irritating to the skin and eyes compared to non-cracked LBPNs. LBPNs are not known to be sensitising to the skin. NAPHTHA PETROLEUM, Animal studies examined the effects of short-term and longer-term exposure to LBPNs through inhalation or oral routes. In male rats LIGHT. HYDROTREATED specifically, exposure to LBPNs resulted in kidney-related issues like increased kidney weight, kidney lesions, and hyaline droplet formation. However, the same effects were not seen in female rats, mice, or humans due to a mechanism of action involving a particular enzyme only found in male rats. The High Benzene Naphthas (HBNs) contain mainly benzene but its adverse health effect is more with other components, which may cause adverse health effects involving a variety of organs. They may produce genetic damage as well as effects on reproduction and the unborn baby (generally at levels toxic to the mother). They may also cause cancers. Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. ISOPROPANOL Isopropanol is irritating to the eyes, nose and throat but generally not to the skin. Prolonged high dose exposure may also produce depression of the central nervous system and drowsiness. Few have reported skin irritation. It can be absorbed from the skin or when inhaled. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans Evidence of carcinogenicity may be inadequate or limited in animal testing. FTHYI -3-Union Carbide \*\* Endura Manufacturing **ETHOXYPROPIONATE** WARNING: For inhalation exposure ONLY: This substance has been classified by the IARC as Group 1: CARCINOGENIC TO HUMANS The International Agency for Research on Cancer (IARC) has classified occupational exposures to respirable (<5 um) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a SILICA CRYSTALLINE non-cancerous lung disease QUARTZ Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours. \* Millions of particles per cubic foot (based on impinger samples counted by light field techniques). NOTE: the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. It titanium dioxide penetrated only the outermost layer of the skin, suggesting that healthy skin may be an effective barrier. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. \* IUCLID A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining 90% is alpha isomer. Hazard appears low but emphasizes the need for care in handling this chemical. II.C.II \*Shin-Etsu SDS For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol PROPYLENE GLYCOL methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). MONOMETHYL ETHER Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ACETATE, ALPHA-ISOMER ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on the reproductive organs, the developing embryo and foetus, blood or thymus gland, are not seen with the commercial-grade propylene glycol ethers. In the ethylene series, metabolism of the terminal hydroxyl group produces and alkoxyacetic acid. The reproductive and developmental toxicities of the lower molecular weight homologues in the ethylene series are due specifically to the formation of methoxyacetic and ethoxyacetic acids. Longer chain homologues in the ethylene series are not associated with reproductive toxicity, but can cause haemolysis in sensitive species, also through formation of an alkoxyacetic acid. Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body. Following hydrolysis the component alcohols and carboxylic acids are metabolized Oral acute toxicity studies have been reported for 51 of the 67 esters of aliphatic acyclic primary alcohols and aliphatic linear saturated FIL TELL TAIL FLUORO carboxylic acids. The very low oral acute toxicity of this group of esters is demonstrated by oral LD50 values greater than 1850 mg/kg bw **AEROSOL (ALL COLOURS) &** Genotoxicity studies have been performed in vitro using the following esters of aliphatic acyclic primary alcohols and aliphatic linear PROPYLENE GLYCOL saturated carboxylic acids: methyl acetate, butyl acetate, butyl stearate and the structurally related isoamyl formate and demonstrates that MONOMETHYL ETHER these substances are not genotoxic. ACETATE, ALPHA-ISOMER The JEFCA Committee concluded that the substances in this group would not present safety concerns at the current levels of intake the esters of aliphatic acyclic primary alcohols and aliphatic linear saturated carboxylic acids are generally used as flavouring substances up to average maximum levels of 200 mg/kg. Higher levels of use (up to 3000 mg/kg) are permitted in food categories such as chewing gum and FIL TELL TAIL FLUORO Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-AEROSOL (ALL COLOURS) & paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely NAPHTHA PETROLEUM, to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. LIGHT, HYDROTREATED & The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in naphtha petroleum, heavy, hydrotreated the gut lymph, but most hydrocarbons partly separate from fats and undergo metabolism in the gut cell. **ACETONE & ISOPROPANOL** The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the

production of vesicles, scaling and thickening of the skin.

& ETHYL-3-

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# FIL TELL TAIL FLUORO AEROSOL (ALL COLOURS)

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ETHOXYPROPIONATE & titanium dioxide			
NAPHTHA PETROLEUM, LIGHT, HYDROTREATED & naphtha petroleum, heavy, hydrotreated	Petroleum contains aromatic (benzene, toluene, ethyl many detrimental health effects, including, cancer, turn Animal testing shows breathing in petroleum causes to humans. Similarly, exposure to gasoline over a lifetime Most studies involving gasoline have shown that gaso subjects (such as in petrol service station attendants). Animal studies show concentrations of toluene (>0.1%).	nour formation, hearing loss, and ner umours of the liver and kidney; these e can cause kidney cancer in animal- line does not cause genetic mutation 6) can cause developmental effects s	vous system toxicity.  e are however not considered to be relevant in  s, but the relevance in humans is questionable.  n, including all recent studies in living human  such as lower birth weight and developmental
	toxicity to the nervous system of the foetus. Other students Prolonged contact with petroleum may result in skin in materials.		
Acute Toxicity	Prolonged contact with petroleum may result in skin in		
Acute Toxicity Skin Irritation/Corrosion	Prolonged contact with petroleum may result in skin in materials.	nflammation and make the skin more	sensitive to irritation and penetration by other
	Prolonged contact with petroleum may result in skin in materials.	nflammation and make the skin more  Carcinogenicity	sensitive to irritation and penetration by other
Skin Irritation/Corrosion Serious Eye	Prolonged contact with petroleum may result in skin in materials.	nflammation and make the skin more  Carcinogenicity  Reproductivity	sensitive to irritation and penetration by other

Legend:

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

## **SECTION 12 Ecological information**

FIL TELL TAIL FLUORO	Endpoint		Test Duration (hr)		Species	Value		Sourc	e	
ROSOL (ALL COLOURS)	Not Available	Not Available		Not Available		Not Availa	Not Available		Not Available	
	Endpoint	Endpoint Test Dura		Duration (hr) Species		ecies		<b>9</b>	Source	
	EC50	96	Sh	Algae or other aquatic plants		nts	7.71mg/l		2	
butane	EC50(ECx)	96	 8h		Algae or other aquatic plants		7.71r		2	
	LC50	96	Sh		Fish		24.11	mg/l	2	
	Endpoint		Test Duration (hr)		Species	Value		Source	<b>^</b>	
propane	Not Available		Not Available		Not Available	Not Availa	ble		/ailable	
	Endpoint	Tos	et Duration (hr)	Snor	rine	Val	luo		Source	
	EC50	96h	st Duration (hr)	Spe	e or other aquatic plants		73-27.684m	a/l	4	
	EC50	72h			e or other aquatic plants		00-10000mg		4	
acetone	NOEC(ECx)	12h		Fish	o or other aquatic plants		01mg/L		4	
	LC50	96h		Fish			14.6-5000.7r	ng/l	4	
	EC50	48h		_	tacea		98.4mg/L			
	2030	401	1	Citus	lacea	003	90.4mg/L		5	
	Endpoint	1	Test Duration (hr)		Species		Val	ue	Source	
	EC50	9	96h		Algae or other aquatic plants			ng/l	2	
naphtha petroleum, light, hydrotreated	NOEC(ECx)	5	504h		Crustacea			7mg/l	2	
nyarotroatoa	LC50	9	96h		Fish			1mg/l	2	
	EC50	48h		Crustacea			0.64	4mg/l	2	
	Endpoint	Те	st Duration (hr)		Species		Value		Source	
	EC50	96			Algae or other aquatic plants		>1000r	ng/l	1	
	EC50	72	h		Algae or other aquatic plants			ng/l	1	
isopropanol	EC50(ECx)	24	h		Algae or other aquatic plants			ıg/L	4	
	LC50	96	h		Fish			ng/L	4	
	EC50	48	h	(	Crustacea			g/l	4	
	Endpoint	Te	st Duration (hr)		nacias		Value		Source	
	EC50	72			Species				2	
ethyl-3-ethoxypropionate	EC50(ECx)	48			Algae or other aquatic plants		>114.86mg/l 970mg/l		1	
, . o culoxypropionate	EC50(ECX)	48			Crustacea  Crustacea				1	
	LC50	96			ish		970mg/l 45.3mg/		2	
	LUJU	90			1911		45.5HIG/	1		
	Endpoint		Test Duration (hr)		Species	Value		Source	e e	
silica crystalline - quartz	Not Available		Not Available		Not Available	Not Availa	hla		/ailable	

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#### FIL TELL TAIL FLUORO AEROSOL (ALL COLOURS)

titanium dioxide	Endpoint	Test Duration (hr)	Sp	ecies	Value		Source	
	Not Available	Not Available	No	t Available	Not Available Not		Not Available	
	Endpoint	Test Duration (hr)	Species			Value	Source	
	EC50	96h	Algae or other aquatic plants			>1000mg/l	2	
propylene glycol	EC50	72h	Algae or o	other aquatic plan	ts	>1000mg/l	2	
monomethyl ether acetate, alpha-isomer	NOEC(ECx)	336h	Fish		47.5mg/l	2		
	EC50	48h	Crustacea		373mg/l	2		
	LC50	96h	Fish			100-180mg/	/I 2	
		<u>'</u>					·	
	Endpoint	Test Duration (hr)	Species			Value	Source	
naphtha petroleum, heavy,	EC50	96h	Algae or other aquatic plants		ts	64mg/l	2	
hydrotreated	EC50(ECx)	48h	Crustacea			>0.002mg/	/1 2	
	EC50	48h	Crustacea	a .		>0.002mg/	/1 2	
Legend:	Ecotox database -	UCLID Toxicity Data 2. Europe Aquatic Toxicity Data 5. ECET entration Data 8. Vendor Data						

Toxic to aquatic organisms.

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When released in the environment, alkanes don't undergo rapid biodegradation, because they have no functional groups (like hydroxyl or carbonyl) that are needed by most organisms in order to metabolize the compound.

However, some bacteria can metabolise some alkanes (especially those linear and short), by oxidizing the terminal carbon atom. The product is an alcohol, that could be next oxidised to an aldehyde, and finally to a carboxylic acid. The resulting fatty acid could be metabolised through the fatty acid degradation pathway.

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.

For n-Heptane: Log Kow: 4.66; Koc: 2400-8100; Half-life (hr) Air: 52.8; Half-life (hr) Surface Water: 2.9-312; Henry's atm m3 /mol: 2.06; BOD 5 (if unstated): 1.92; COD: 0.06; BCF: 340-2000; Log BCF: 2.53-3.31.

Atmospheric Fate: Breakdown of n-heptane by sunlight is not expected to be an important fate process. If released to the atmosphere, n-heptane is expected to exist entirely in the vapor phase, in ambient air. Reactions hydroxyl radicals in the atmosphere have been shown to be important.

For Butane (Synonym: n-Butane): Log Kow: 2.89, Koc: 450-900; Henry s Law Constant: 0.95 atm-cu m/mole, Vapor Pressure: 1820 mm Hg; BCF: 1.9.

Atmospheric Fate: Butane is expected to exist only as a gas in the ambient atmosphere. Gas-phase n-butane is degraded in the atmosphere by reaction with hydroxyl radicals; the half-life for this reaction in air is estimated to be 6.3 days, (@ 25 C). Butane is not expected to absorb UV light and probably will probably not be broken down directly by sunlight in the atmosphere.

For Propane: Koc 460. log

Kow 2.36.

Henry's Law constant of 7.07x10-1 atm-cu m/mole, derived from its vapour pressure, 7150 mm Hg, and water solubility, 62.4 mg/L. Estimated BCF: 13.1.

DO NOT discharge into sewer or waterways.

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
butane	LOW	LOW
propane	LOW	LOW
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
ethyl-3-ethoxypropionate	LOW	LOW
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW

# Bioaccumulative potential

Ingredient	Bioaccumulation
butane	LOW (LogKOW = 2.89)
propane	LOW (LogKOW = 2.36)
acetone	LOW (BCF = 0.69)
isopropanol	LOW (LogKOW = 0.05)
ethyl-3-ethoxypropionate	LOW (LogKOW = 1.08)
titanium dioxide	LOW (LogKOW = 2.23)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)

# Mobility in soil

Ingredient	Mobility
butane	LOW (Log KOC = 43.79)
propane	LOW (Log KOC = 23.74)
acetone	HIGH (Log KOC = 1.981)
isopropanol	HIGH (Log KOC = 1.06)

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Ingredient	Mobility
ethyl-3-ethoxypropionate	LOW (Log KOC = 10)
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (Log KOC = 1.838)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ▶ Consult State Land Waste Management Authority for disposal.
- ▶ 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.
- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- Allow small quantities to evaporate.
- ► DO NOT incinerate or puncture aerosol cans.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous.

## **SECTION 14 Transport information**

## **Labels Required**



## **Marine Pollutant**



HAZCHEM

Not Applicable

#### Land transport (UN)

14.1. UN number or ID number	1950	1950					
14.2. UN proper shipping name	AEROSOLS	JEROSOLS					
14.3. Transport hazard class(es)	Class Subsidiary Hazard	2.1 Not Applicable					
14.4. Packing group	Not Applicable	Not Applicable					
14.5. Environmental hazard	Environmentally hazar	Environmentally hazardous					
14.6. Special precautions for user	Special provisions         63; 190; 277; 327; 344; 381           Limited quantity         1000ml						

## Air transport (ICAO-IATA / DGR)

All transport (IOAO	., ., ., .	• /						
14.1. UN number		1950	1950					
14.2. UN proper shi name	pping	Aerosols, flammable (engine starting fluid)						
		ICAO/IATA Class 2.1						
14.3. Transport haza class(es)	ard	ICAO / IATA Subsidiary Hazard	AO / IATA Subsidiary Hazard Not Applicable					
ciass(es)	Class(es)	ERG Code	10L					
14.4. Packing group	)	Not Applicable						
14.5. Environmenta	l hazard	Environmentally hazardous						
14.6. Special precau	utions for	Special provisions		A1 A145 A167 A802				
		Cargo Only Packing Instructions		203				
		Cargo Only Maximum Qty / Pack		150 kg				
		Passenger and Cargo Packing In	Passenger and Cargo Packing Instructions Forbidden					
		Passenger and Cargo Maximum	Passenger and Cargo Maximum Qty / Pack Forbidden					
				'				

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	Passenger and Car	go Limi	ited Quantity Packing Instructions	Forbidden	
	Passenger and Cargo Limited Maximum Qty / Pack			Forbidden	
Sea transport (IMDG-Code / GC	2VS00)				
Sea transport (IMDG-Code / GC					
14.1. UN number	1950	1950			
14.2. UN proper shipping name	AEROSOLS				
14.3. Transport hazard	IMDG Class	IMDG Class 2.1			
class(es)	IMDG Subsidiary Hazard Not Applicable				
14.4. Packing group	Not Applicable				
14.5 Environmental hazard	Marine Pollutant	Marine Pollutant			
	EMS Number	F-D	, S-U		
14.6. Special precautions for	Special provisions	ecial provisions 63 190 277 327 344 381 959			

63 190 277 327 344 381 959

1000 ml

#### 14.7. Maritime transport in bulk according to IMO instruments

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

Not Applicable

user

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

Special provisions

Limited Quantities

Product name	Group
butane	Not Available
propane	Not Available
acetone	Not Available
naphtha petroleum, light, hydrotreated	Not Available
isopropanol	Not Available
ethyl-3-ethoxypropionate	Not Available
Colour	Not Available
silica crystalline - quartz	Not Available
titanium dioxide	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available
naphtha petroleum, heavy, hydrotreated	Not Available

## 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
butane	Not Available
propane	Not Available
acetone	Not Available
naphtha petroleum, light, hydrotreated	Not Available
isopropanol	Not Available
ethyl-3-ethoxypropionate	Not Available
Colour	Not Available
silica crystalline - quartz	Not Available
titanium dioxide	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available
naphtha petroleum, heavy, hydrotreated	Not Available

## **SECTION 15 Regulatory information**

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

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard
HSR002515	Aerosols Flammable Group Standard 2020

Please refer to Section 8 of the SDS for any applicable tolerable exposure limit or Section 12 for environmental exposure limit.

# butane is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

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New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### propane is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### acetone is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### naphtha petroleum, light, hydrotreated is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

#### isopropanol is found on the following regulatory lists

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### ethyl-3-ethoxypropionate is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

#### silica crystalline - quartz is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### titanium dioxide is found on the following regulatory lists

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES)

#### propylene glycol monomethyl ether acetate, alpha-isomer is found on the following regulatory lists

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)

## naphtha petroleum, heavy, hydrotreated is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Land Transport Rule; Dangerous Goods 2005 - Schedule 2 Dangerous Goods in Limited Quantities and Consumer Commodities

New Zealand Workplace Exposure Standards (WES)

## Additional Regulatory Information

Not Applicable

#### **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
2.1.2A	3 000 L (aggregate water capacity)	3 000 L (aggregate water capacity)

## Certified Handler

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

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Subject to Regulation 13.14 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Gas (aggregate water capacity in mL)	Liquid (L)	Solid (kg)	Maximum quantity per package for each classification
2.1.2A				1L (aggregate water capacity)

#### **Tracking Requirements**

Not Applicable

#### National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non- Industrial Use	Yes	
Canada - DSL	No (titanium dioxide)	
Canada - NDSL	No (butane; propane; acetone; naphtha petroleum, light, hydrotreated; isopropanol; ethyl-3-ethoxypropionate; Colour; silica crystalline - quartz; propylene glycol monomethyl ether acetate, alpha-isomer; naphtha petroleum, heavy, hydrotreated)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	
Japan - ENCS	No (naphtha petroleum, light, hydrotreated)	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'	
Taiwan - TCSI	Yes	
Mexico - INSQ	No (titanium dioxide)	
Vietnam - NCI	Yes	
Russia - FBEPH	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. These ingredients may be exempt or will require registration.	

#### **SECTION 16 Other information**

Revision Date	26/02/2025
Initial Date	17/11/2020

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.3	26/02/2025	Hazards identification - Classification, Composition / information on ingredients - 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 Cancel
- 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
- ES: Exposure Standard
- ▶ 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
- DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- ▶ IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code
- AllC: Australian Inventory of Industrial Chemicals
- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
   ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ► ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals

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- PICCS: Philippine Inventory of Chemicals and Chemical Substances
   TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
  FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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