

HSNO 2017 - New Zealand

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

#### 1.1 Product identifier

Product name : Hempel's Bilge & Locker Paint  
Product identity : 5112B10000  
Product type : alkylid paint

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

Field of application : Yacht, ships and shipyards.  
Identified uses : Consumer applications, Used by spraying.

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

Company details : Hempel (Wattyl) New Zealand Limited  
2-14 Patiki Road  
Avondale, Auckland 1026  
Tel.: 09 820 6700  
Email: sales.nz@hempel.com

Date of Preparation : 27 October 2024  
Date of previous issue : 6 May 2021.

#### 1.4 Emergency telephone number

Emergency telephone number (with hours of operation)  
  
Poisons Centre New Zealand: 0800 764 766 (24 hour)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

##### GHS Classification

FLAMMABLE LIQUIDS - Category 3  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1  
AQUATIC HAZARD (LONG-TERM) - Category 2

#### 2.2 Label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 - Flammable liquid and vapor.  
H317 - May cause an allergic skin reaction.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.  
H360 - May damage fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS))  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements :

General : Keep out of reach of children. If medical advice is needed, have product container or label at hand. Do not apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor, mist or spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

## SECTION 2: Hazards identification

Response : ☒ Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Storage : ☒ Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal : ☒ Dispose of contents and container in accordance with all local, regional, national and international regulations.

### 2.3 Other hazards

Other hazards which do not result in classification : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Product/ingredient name	Identifiers	%
<input checked="" type="checkbox"/> Titanium dioxide	13463-67-7	≥10 - ≤30
white spirit	64742-88-7	≥10 - ≤30
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	64742-82-1	≥10 - ≤30
Calcium carbonate	471-34-1	≤3
xylene	1330-20-7	≤3
ethylbenzene	100-41-4	<1
trimethylolpropane	77-99-6	≤0.3
2-butanone oxime	96-29-7	≤0.3
zirconium octoate	22464-99-9	≤0.3
naphthalene	91-20-3	≤0.3
4-nonylphenol, branched	84852-15-3	≤0.1

Occupational exposure limits, if available, are listed in Section 8.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  
If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid).

Eye contact : ☒ Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.

Inhalation : ☒ Remove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.

Protection of first-aiders : ☒ No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : No known significant effects or critical hazards.

Ingestion : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

### SECTION 4: First aid measures

Eye contact :	No specific data.
Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact :	No specific data.
Ingestion :	No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician :	If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments :	No specific treatment.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Extinguishing media :	Recommended: alcohol resistant foam, CO <sub>2</sub> , powders, water spray. Not to be used: waterjet.
-----------------------	---

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture :	Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products :	Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

#### 5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

#### 6.4 Reference to other sections

### SECTION 6: Accidental release measures

See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

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

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Product/ingredient name	Exposure limit values
titanium dioxide	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023).</b> WES-TWA: 10 mg/m <sup>3</sup> 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica.
Calcium carbonate	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023).</b> WES-TWA: 10 mg/m <sup>3</sup> 8 hours. Form: The value for inhalable dust containing no asbestos and less than 1% free silica.
xylene	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023). [xylene (o-, m-, p-isomers)] Ototoxicant.</b> WES-TWA: 50 ppm 8 hours. WES-TWA: 217 mg/m <sup>3</sup> 8 hours.
ethylbenzene	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023). Absorbed through skin. Ototoxicant.</b> WES-STEL: 176 mg/m <sup>3</sup> 15 minutes. WES-STEL: 40 ppm 15 minutes. WES-TWA: 88 mg/m <sup>3</sup> 8 hours. WES-TWA: 20 ppm 8 hours.
zirconium octoate	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023). [zirconium and compounds]</b> WES-TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours. WES-STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes.
naphthalene	<b>HSWA 2015 - HSW (GRWM) 2016. Workplace exposure standards (WES) (New Zealand, 11/2023). Absorbed through skin.</b> WES-STEL: 10 mg/m <sup>3</sup> 15 minutes. WES-STEL: 2 ppm 15 minutes. WES-TWA: 2.6 mg/m <sup>3</sup> 8 hours. WES-TWA: 0.5 ppm 8 hours.

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### 8.2 Exposure controls

##### Appropriate engineering controls

### SECTION 8: Exposure controls/personal protection

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

#### Individual protection measures

General :

Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.



Hygiene measures :

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Eye/face protection :

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection :

Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.

Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:

Recommended: Silver Shield / Barrier / 4H gloves, nitrile rubber (>0.3 mm), polyvinyl alcohol (PVA), Viton®

May be used: nitrile rubber (>0.1 mm)

Short term exposure: neoprene rubber (>0.1 mm), butyl rubber (>0.5 mm), natural rubber (latex) (>0.4 mm), polyvinyl chloride (PVC), butyl rubber (>0.3 mm)

Body protection :

Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.

Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection :

When the product is applied by spraying and for continuous or prolonged work always wear an air-fed respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state :

Liquid.

Odor :

Solvent-like

pH :

Testing not relevant or not possible due to nature of the product.

Melting point/freezing point :

Testing not relevant or not possible due to nature of the product.

Boiling point/boiling range :

Testing not relevant or not possible due to nature of the product.

Flash point :

Closed cup: 38°C (100.4°F)

Evaporation rate :

Testing not relevant or not possible due to nature of the product.

Flammability :

Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

Lower and upper explosive (flammable) limits :

0.6 - 7.6 vol %

Vapor pressure :

Testing not relevant or not possible due to nature of the product.

Vapor density :

Testing not relevant or not possible due to nature of the product.

### SECTION 9: Physical and chemical properties

Relative density :	1.18 g/cm <sup>3</sup>
Partition coefficient (LogKow) :	Testing not relevant or not possible due to nature of the product.
Auto-ignition temperature :	Testing not relevant or not possible due to nature of the product.
Decomposition temperature :	Testing not relevant or not possible due to nature of the product.
Viscosity :	Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.
Explosive properties :	Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
Oxidizing properties :	Testing not relevant or not possible due to nature of the product.

#### 9.2 Other information

Solvent(s) % by weight :	Weighted average: 39 %
Water % by weight :	Weighted average: 0 %
VOC content :	59.2 g/l
TOC Content :	Weighted average: 400 g/l
Solvent Gas :	Weighted average: 0.086 m <sup>3</sup> /l

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

The product is stable.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

#### 10.5 Incompatible materials

Reactive or incompatible with the following materials: oxidizing materials.  
Slightly reactive or incompatible with the following materials: reducing materials.

#### 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:  
Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

#### Acute toxicity



### SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Calcium carbonate	LD50 Oral	Rat	6450 mg/kg	-
	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	6350 ppm	4 hours
xylene	LD50 Dermal	Rabbit	>4200 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
ethylbenzene	LD50 Oral	Rat	3500 mg/kg	-
	LD50 Oral	Rat	14100 mg/kg	-
	LD50 Dermal	Rabbit	1001 mg/kg	-
trimethylolpropane	LD50 Oral	Rat	930 mg/kg	-
	LD50 Dermal	Rabbit	>8800 mg/m <sup>3</sup>	1 hours
	LD50 Oral	Rat	>2000 mg/kg	-
2-butanone oxime	LD50 Oral	Rat	>2000 mg/kg	-
	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	490 mg/kg	-
zirconium octoate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1246 mg/kg	-
	LD50 Oral	Rat	1246 mg/kg	-

#### Acute toxicity estimates

Route	ATE value
Oral	42103.86 mg/kg
Dermal	92628.49 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
Titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms
Calcium carbonate	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
xylene	Skin - Irritant	Rabbit	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
ethylbenzene	Eyes - Mild irritant	Rabbit	-	-
	Respiratory - Mild irritant	Rabbit	-	-
2-butanone oxime	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams
	Eyes - Severe irritant	Rabbit	-	100 microliters
naphthalene	Skin - Severe irritant	Rabbit	-	24 hours 0.05 Milliliters
	Eyes - Severe irritant	Rabbit	-	100 milligrams
4-nonylphenol, branched	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
White spirit hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3		Narcotic effects
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
White spirit hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1	inhalation	central nervous system (CNS)
	Category 1	inhalation	central nervous system (CNS)
xylene	Category 2	-	-
ethylbenzene	Category 2	-	-
2-butanone oxime	Category 2	-	-
naphthalene	Category 1	-	-

#### Aspiration hazard

Product/ingredient name	Result
White spirit hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential chronic health effects

### SECTION 11: Toxicological information

Sensitization : Contains 2-butanone oxime. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Do not allow to enter drains or watercourses. Toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l	-	48 hours
white spirit	Acute LC50 >100 mg/l	-	96 hours
	Acute EC50 4.6 - 10 mg/l	-	72 hours
	Acute EC50 10 - 20 mg/l	-	48 hours
	Acute EC50 10 - 30 mg/l	-	96 hours
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Chronic EC50 4.6 - 10 mg/l	-	72 hours
	Chronic EC50 10 - 20 mg/l	-	48 hours
	Chronic EC50 10 - 30 mg/l	-	96 hours
ethylbenzene	Chronic NOEC <1000 µg/l Fresh water	-	96 hours
naphthalene	Acute EC50 1600 µg/l Fresh water	-	48 hours
	Acute LC50 2350 µg/l Marine water	-	48 hours
	Acute LC50 213 µg/l Fresh water	-	96 hours
4-nonylphenol, branched	Acute EC50 0.0563 mg/l	-	72 hours
	Acute EC50 137 µg/l Marine water	-	48 hours
	Acute EC50 0.085 mg/l	-	48 hours
	Acute LC50 0.128 mg/l	-	96 hours
	Chronic NOEC 23 µg/l Fresh water	-	33 days

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
white spirit	301F Ready Biodegradability - Manometric Respirometry Test	7 - 74 % - Readily - 28 days	-	-
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	OECD 301F Ready Biodegradability - Manometric Respirometry Test	74.7 % - Readily - 28 days	-	-
xylene	OECD 301F Ready Biodegradability - Manometric Respirometry Test	90 - 98 % - Readily - 28 days	-	-
ethylbenzene	-	>60 % - Readily - 28 days	-	-
trimethylolpropane	-	>70 % - Readily - 28 days	-	-
	OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	100 % - Readily - 28 days	-	-
zirconium octoate	-	99 % - Readily - 28 days	20 mg/l	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
white spirit	-	-	Readily
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Readily
xylene	-	-	Readily
ethylbenzene	-	-	Readily
trimethylolpropane	-	-	Readily
zirconium octoate	-	-	Readily

#### 12.3 Bioaccumulative potential



### SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
white spirit	3 - 7.3	-	high
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	10 - 2500	high
xylene	3.12	8.1 - 25.9	low
ethylbenzene	3.6	-	low
trimethylolpropane	-0.47	<1	low
2-butanone oxime	0.63	2.5 - 5.8	low
zirconium octoate	-	2.96	low
naphthalene	3.4	36.5 - 168	low
4-nonylphenol, branched	5.4	740	high

#### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : No known data available in our database.

Mobility : No known data available in our database.

#### Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods






The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

#### Packaging

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### SECTION 14: Transport information

Transport may take place according to national regulation NZS for transport by road and train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN no.	14.2 Proper shipping name	14.3 Transport hazard class(es)	14.4 PG*	14.5 Env* Additional information
<b>NZS Class</b>	UN1263	PAINT	3  	III	Yes. <u>Hazchem code</u> ●3Y
<b>IMDG Class</b>	UN1263	PAINT. (white spirit)	3  	III	Yes. The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-E
<b>IATA Class</b>	UN1263	PAINT	3 	III	Yes. The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG\* : Packing group

Env.\* : Environmental hazards

#### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk according to IMO instruments

Not applicable.

### SECTION 15: Regulatory information

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

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2012 Transport of Dangerous Goods on Land.

#### HSNO Classification

FLAMMABLE LIQUIDS - Category 3

SKIN SENSITIZATION - Category 1

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

AQUATIC HAZARD (LONG-TERM) - Category 2

Safety, health and environmental regulations specific for the product :

No known specific national and/or regional regulations applicable to this product (including its ingredients).

HSNO Group Standard : HSR002669

HSNO Group Standard assigned are based upon the GHS Classification.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Classification	Justification
FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.