

1.4 Emergency telephone number

Emergency telephone number (with hours of operation)

Poisons Centre New Zealand: 0800 764 766 (24 hour)

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - New Zealand

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

1.1 Product identifier

Product name: Hempel's Galvosil 15709 Base

Product identity: 1570919840

Product type: zinc silicate primer (base for multi-component product)

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

Field of application: metal industry

Ready-for-use mixture : 15700 = 15709 6.5 vol. / 97170 2 vol. Identified uses : Industrial 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: 15 October 2021
Date of previous issue 5 May 2021.

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Product definition: Mixture

**GHS Classification** 

FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

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

2.2 Label elements

Hazard pictograms:





Signal word: Danger

Hazard statements: Highly flammable liquid and vapor.

Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary statements:

Prevention: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor.

Wash thoroughly after handling.

Response: IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and

wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

imiation persists: Get medical advice of attention.

Storage: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

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

regulations.

Hazardous ingredients: 1-methoxy-2-propanol

xylene ethanol propan-2-ol

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# **SECTION 2: Hazards identification**

# 2.3 Other hazards

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

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Product/ingredient name	Identifiers	%	GHS Classification
1-methoxy-2-propanol	107-98-2	≥10 - ≤25	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
xylene	1330-20-7	≥10 - ≤18	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
ethanol	64-17-5	≥10 - ≤25	SKIN CORROSION/IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
propan-2-ol	67-63-0	≥5 - ≤10	FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
Solvent naphtha (petroleum), light arom.	64742-95-6	≥3 - ≤5	(Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2
ethylbenzene	100-41-4	≥3 - ≤4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
1,2,4-trimethylbenzene	95-63-6	≥1 - ≤2.8	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2
trimethyl borate	121-43-7	<1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
methanol	67-56-1	≤1	Category 1 FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1
zinc chloride	7646-85-7	≤0.3	ACUTE TOXICITY (oral) - Category 4  SKIN CORROSION/IRRITATION - Category 1B  SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  (Respiratory tract irritation) - Category 3  AQUATIC HAZARD (ACUTE) - Category 1  AQUATIC HAZARD (LONG-TERM) - Category 1
toluene	108-88-3	≤0.3	FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 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.

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#### **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. In all cases of doubt, or when symptoms

persist, seek medical attention.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by

mouth. 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.

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

#### Potential acute health effects

Eye contact : Causes serious eye irritation.

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

Skin contact: Causes skin irritation.

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

# Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

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

Notes to physician: 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:

Highly 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 harmful 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.

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

Hazardous combustion products: Decomposition products may include the following materials: carbon 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

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.

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Product/ingredient name	Exposure limit values
china clay	NZ HSWA 2015 (New Zealand, 11/2019). WES-TWA: 2 mg/m³ 8 hours. Form: The value for respirable dust.
	WES-TWA: 10 mg/m³ 8 hours.
1-methoxy-2-propanol	NZ HSWA 2015 (New Zealand, 11/2019).
	WES-STEL: 553 mg/m³ 15 minutes.
	WES-STEL: 150 ppm 15 minutes. WES-TWA: 369 mg/m³ 8 hours.
	WES-TWA: 100 ppm 8 hours.
xylene	NZ HSWA 2015 (New Zealand, 11/2019).
Aylene	WES-TWA: 50 ppm 8 hours.
	WES-TWA: 30 ppm o nodis: WES-TWA: 217 mg/m³ 8 hours.
ethanol	NZ HSWA 2015 (New Zealand, 11/2019).
	WES-TWA: 1000 ppm 8 hours.
	WES-TWA: 1880 mg/m³ 8 hours.
propan-2-ol	NZ HSWA 2015 (New Zealand, 11/2019).
	WES-TWA: 400 ppm 8 hours.
	WES-TWA: 983 mg/m³ 8 hours.
	WES-STEL: 1230 mg/m³ 15 minutes.
	WES-STEL: 500 ppm 15 minutes.
Solvent naphtha (petroleum), light arom.	ACGIH TLV (United States).
All all and an area	TWA Tentative: 25 ppm 8 hours.
ethylbenzene	NZ HSWA 2015 (New Zealand, 11/2019). WES-STEL: 543 mg/m³ 15 minutes.
	WES-STEL: 343 fight 13 minutes. WES-STEL: 125 ppm 15 minutes.
	WES-TWA: 434 mg/m <sup>3</sup> 8 hours.
	WES-TWA: 100 ppm 8 hours.
1,2,4-trimethylbenzene	NZ HSWA 2015 (New Zealand, 11/2019).
·,=, · · ····, · · · · · · · · · · · · ·	WES-TWA: 25 ppm 8 hours.
	WES-TWA: 123 mg/m³ 8 hours.
methanol	NZ HSWA 2015 (New Zealand, 11/2019). Absorbed through skin.
	WES-TWA: 200 ppm 8 hours.
	WES-TWA: 262 mg/m³ 8 hours.
	WES-STEL: 328 mg/m³ 15 minutes.
	WES-STEL: 250 ppm 15 minutes.
zinc chloride	NZ HSWA 2015 (New Zealand, 11/2019).
	WES-STEL: 2 mg/m³ 15 minutes. Form: Fume WES-TWA: 1 mg/m³ 8 hours. Form: Fume
toluono	· ·
toluene	NZ HSWA 2015 (New Zealand, 11/2019). Absorbed through skin. WES-TWA: 50 ppm 8 hours.
	WES-TWA: 30 ppin 6 hours. WES-TWA: 188 mg/m³ 8 hours.
	The Time too mg/m o modio.

## 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

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.

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#### **SECTION 8: Exposure controls/personal protection**

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: chemical splash goggles.

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, Viton®

May be used: polyvinyl alcohol (PVA), nitrile rubber, neoprene rubber, butyl rubber

Short term exposure: natural rubber (latex), polyvinyl chloride (PVC)

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: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. 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. This product contains low-boiling point liquids. Any respiratory protective equipment should be

air-fed or organic vapor filter (Type AX).

#### **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.

Color : Metal grey

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: 14°C (57.2°F)

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

Flammability: Extremely flammable in the presence of the following materials or conditions: open flames, sparks and

static discharge.

Highly flammable in the presence of the following materials or conditions: heat and oxidizing materials.

Slightly flammable in the presence of the following materials or conditions: reducing materials.

Lower and upper explosive

(flammable) limits:

0.8 - 19 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.

Relative density: 1.1 g/cm<sup>3</sup>

Solubility(ies): Insoluble in the following materials: cold water and hot water.

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.

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: oxidizing materials.

Slightly explosive in the presence of the following materials or conditions: reducing materials.

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

### 9.2 Other information

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

Solvent(s) % by weight: Weighted average: 79 % Water % by weight: Weighted average: 0 % VOC content: 585 g/l (Measured) VOC content, Ready-for-use 434 g/l [Measured]

mixture:

Solvent Gas: Weighted average: 0.323 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

Highly reactive or incompatible with the following materials: oxidizing materials and acids. 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 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**

Result	Species	Dose	Exposure
LD50 Dermal	Rabbit	13 g/kg	-
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	4016 mg/kg	-
LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
LC50 Inhalation Vapor	Rat	6350 ppm	4 hours
LD50 Dermal	Rabbit	>4200 mg/kg	-
LD50 Oral	Rat	3523 mg/kg	-
LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
LD50 Oral	Rat	7060 mg/kg	-
LC50 Inhalation Vapor	Rat	6193 mg/m <sup>3</sup>	4 hours
·		•	
LD50 Dermal	Rabbit	3160 mg/kg	-
LD50 Oral	Rat	8400 mg/kg	-
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Intraperitoneal	Rabbit	667 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LDLo Oral	Human	3570 mg/kg	-
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	3500 mg/kg	-
LD50 Dermal	Rabbit	1980 mg/kg	-
LD50 Oral	Rat	6140 mg/kg	-
	LD50 Dermal LD50 Oral LC50 Inhalation Gas. LC50 Inhalation Vapor LD50 Dermal LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Dermal LD50 Oral LD50 Dermal LD50 Intraperitoneal LD50 Oral LD50 Dermal LD50 Dermal LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral	LD50 Dermal LD50 Oral LD50 Oral Rat LC50 Inhalation Gas. LC50 Inhalation Vapor LD50 Dermal LD50 Oral Rat LC50 Inhalation Vapor Rat LD50 Dermal Rat LD50 Dermal Rat LD50 Oral Rat LD50 Intraperitoneal Rabbit LD50 Oral Rat LD50 Dermal Rabbit LD50 Oral Rat LD50 Dermal Rabbit LD50 Oral Rat Rabbit	LD50 Dermal         Rabbit         >2000 mg/kg           LD50 Oral         Rat         4016 mg/kg           LC50 Inhalation Gas.         Rat         5000 ppm           LC50 Inhalation Vapor         Rat         6350 ppm           LD50 Dermal         Rabbit         >4200 mg/kg           LD50 Oral         Rat         3523 mg/kg           LC50 Inhalation Vapor         Rat         124700 mg/m³           LD50 Oral         Rat         7060 mg/kg           LC50 Inhalation Vapor         Rat         6193 mg/m³           LD50 Dermal         Rabbit         3160 mg/kg           LD50 Oral         Rat         8400 mg/kg           LD50 Dermal         Rabbit         >5000 mg/kg           LD50 Dermal         Rabbit         667 mg/kg           LD50 Oral         Rat         >5000 mg/kg           LD50 Oral         Rat         >5000 mg/kg           LD50 Dermal         Rabbit         >5000 mg/kg           LD50 Oral         Rat         3570 mg/kg           LD50 Oral         Rat         3500 mg/kg           LD50 Oral         Rat         3500 mg/kg           LD50 Oral         Rat         3500 mg/kg           LD50 Dermal         Rat

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# **SECTION 11: Toxicological information**

methanol	LC50 Inhalation Gas.	Rat	64000 ppm	4 hours	
	LC50 Inhalation Gas.	Rat	64000 ppm	8 hours	
	LD50 Dermal	Rabbit	15800 mg/kg	-	
	LD50 Dermal	Rat	300 mg/kg	-	
	LD50 Oral	Rat	5600 mg/kg	-	
zinc chloride	LD50 Oral	Rat	1100 - 1260 mg/kg	-	
toluene	LC50 Inhalation Vapor	Rat	>20 mg/l	4 hours	
	LD50 Oral	Rat	636 mg/kg	-	

# Acute toxicity estimates

Route	ATE value
	7378.6 mg/kg 6067.3 mg/kg 37992.05 ppm 138.79 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams
xylene	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
	Skin - Irritant	Rabbit	-	-
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams
solvent naphtha (petroleum), light	Eyes - Mild irritant	Rabbit	-	24 hours 100 microliters
arom.				
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams
	Skin - Mild irritant	Rabbit	-	500 milligrams
ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams
•	Respiratory - Mild irritant	Rabbit	-	-
	Eyes - Mild irritant	Rabbit	-	-
trimethyl borate	Eyes - Moderate irritant	Rabbit	-	500 milligrams
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams
zinc chloride	Skin - Severe irritant	Rabbit	-	120 hours 1 Percent
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-methoxy-2-propanol	Category 3	-	Narcotic effects
solvent naphtha (petroleum), light arom.	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
propan-2-ol	Category 3	-	Narcotic effects
trimethyl borate	Category 1	-	-
methanol	Category 1	oral	central nervous system (CNS), eyes
zinc chloride	Category 3	-	Respiratory tract
toluene	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
toluene	Category 2		-

#### **Aspiration hazard**

Product/ingredient name	Result
solvent naphtha (petroleum), light arom. ethylbenzene toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential chronic health effects

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

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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

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

Product/ingredient name	Result	Species	Exposure
1-methoxy-2-propanol	Acute EC50 1000 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	7 days
	Acute EC50 23300 mg/l	Daphnia - Daphnia magna (Water flea)	48 hours
	Acute LC50 6812 mg/l	Fish - Leuciscus idus	96 hours
ethanol	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
solvent naphtha (petroleum), light arom.	Acute EC50 19 mg/l	Algae - Pseudokirchneriella subcapitata (green algae)	96 hours
	Acute EC50 6.14 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 9.22 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
ethylbenzene	Chronic NOEC <1000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
methanol	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
zinc chloride	Acute EC50 34 μg/l Fresh water	Algae - Chlorella vulgaris - Exponential growth phase	72 hours
	Acute EC50 1.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctiales	96 hours
	Acute EC50 100 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 49.99 µg/l Fresh water	Crustaceans - Moina irrasa - Neonate	48 hours
	Acute LC50 0.027 mg/l Marine water	Fish - Limanda punctatissima - Pre- larvae	96 hours
	Chronic NOEC 20 µg/l Marine water	Algae - Chlorella sp Exponential growth phase	72 hours
	Chronic NOEC 1000 µg/l Fresh water	Crustaceans - Procambarus clarkii - Intermolt	21 days
	Chronic NOEC 80 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 31.5 µg/l Fresh water	Fish - Oncorhynchus mykiss	30 days
toluene	Chronic NOEC <500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1-methoxy-2-propanol	OECD 301E Ready Biodegradability - Modified OECD Screening Test	96 % - Readily - 28 days	-	-
xylene	OECD 301F Ready Biodegradability - Manometric Respirometry Test	90 - 98 % - Readily - 28 days	-	-
	- '	>60 % - Readily - 28 days	-	-
ethanol	-	84 % - Readily - 20 days	-	-
solvent naphtha (petroleum), light arom.	-	>70 % - Readily - 28 days	-	-
propan-2-ol	-	86 % - 14 days	100 mg/l	-
ethylbenzene	-	>70 % - Readily - 28 days	-	-
toluene	-	100 % - Readily - 14 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1-methoxy-2-propanol	-	-	Readily
xylene	-	-	Readily
ethanol	-	-	Readily
solvent naphtha (petroleum), light	-	-	Readily
arom.			
propan-2-ol	-	-	Readily
ethylbenzene	-	-	Readily
toluene	-	-	Readily

# 12.3 Bioaccumulative potential

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#### **SECTION 12: Ecological information**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1-methoxy-2-propanol	<1	<100	low
xylene	3.12	8.1 - 25.9	low
ethanol	-0.35	-	low
solvent naphtha (petroleum), light arom.	-	10 - 2500	high
propan-2-ol	0.05	3	low
ethylbenzene	3.6	-	low
trimethyl borate	-1.9	-	low
methanol	-0.77	<10	low
zinc chloride	2.2	60960	high
toluene	2.73	90	low

#### 12.4 Mobility in soil

Soil/water partition coefficient

No known data avaliable in our database.

(K<sub>oc</sub>):

Mobility: No known data avaliable 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 Trans	sport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
NZS Class	UN1263	PAINT	3		II	No.	<u>Hazchem code</u> 3YE
IMDG Class	UN1263	PAINT	3	<b>&amp;</b>	II	No.	Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3	<b>&amp;</b>	II	No.	-

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.

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# **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 (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

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

#### **HSNO Classification**

- 3.1 FLAMMABLE LIQUIDS Category B
- 6.1 ACUTE TOXICITY (oral) Category E
- 6.3 SKIN IRRITATION Category A
- 6.4 EYE IRRITATION Category A (Irritant)
- 6.7 CARCINOGENICITY Category B
- 6.8 REPRODUCTIVE AND DEVELOPMENTAL TOXICITY Category B
- 6.9 SPECIFIC TARGET ORGAN TOXICITY (SINGLE OR REPEATED EXPOSURE) Category B
- 9.1 AQUATIC ECOTOXICITY Category C

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 assinged are based upon the GHS Classification.

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

Indicates information that has changed from previously issued version.

Classification	Justification	
SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	On basis of test data Calculation method Calculation method Calculation method	

#### Notice to reader

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

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