# UNIMARINE SERVICES INC SAFETY DATA SHEET

Coal Tar Remover

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

#### 1.1 Product identifier

Product name : Coal Tar Remover

Product description : Not available.

Product type : Liquid.

Other means of : Not available.

identification

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

Identified uses		
Industrial cleansing agent		
Uses advised against	Reason	
Other than bescribed		

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

Company:

Unimarine Services Inc. 60 Market Square, PO Box 364, Belize City

Contact your nearest Unimarine sales office

Email: info@unimarine-services.com

### 1.4 Emergency telephone number

Emergency Telephone: Only to be used in case of incident

Tel: 00357 96484325

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### 2. Hazards identification

### 2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Carc. Cat. 3; R40

Xn; R20 N; R51/53

**Human health hazards**: Limited evidence of a carcinogenic effect. Harmful by inhalation.

**Environmental hazards**: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms







Signal word : Danger

**Hazard statements**: Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure. (blood

system, liver, lymphatic system)

Toxic to aquatic life with long lasting effects.

### **Precautionary statements**

Prevention : Obtain special instructions before use. Wear protective gloves. Wear eye or face

protection. Avoid release to the environment. Do not breathe vapour.

**Response**: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing. IF SWALLOWED: Immediately call a POISON CENTER or physician.

Do NOT induce vomiting.

Storage : Store locked up.

Disposal : Not applicable.

Hazardous ingredients : tetrachloroethylene

Diesel nr.2

2,2'-iminodiethanol

Supplemental label

elements

: Not applicable.

**Special packaging requirements** 

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### 2. Hazards identification

Containers to be fitted with child-resistant

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: Not available.

: Not applicable.

### 3. Composition/information on ingredients

Substance/mixture : Mixture

			Class	<u>ification</u>	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
tetrachloroethylene	EC: 204-825-9 CAS: 127-18-4 Index: 602-028-00-4	50-75	Carc. Cat. 3; R40 N; R51/53	Skin Irrit. 2, H315 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H336 Aquatic Chronic 2, H411	[1] [2]
Diesel nr.2	CAS: 68476-30-2	35-50	Xn; R20	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
2,2'-iminodiethanol	EC: 203-868-0 CAS: 111-42-2 Index: 603-071-00-1	1-3	Xn; R22, R48/22 Xi; R41, R38	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373	[1] [2]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

### 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 unconscious, place in recovery position and seek medical advice.

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate 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.

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### 4. First aid measures

Skin contact

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

Ingestion

: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

**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

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. 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.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** 

: No specific treatment.

See toxicological information (Section 11)

### 5. Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

: Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.

Unsuitable extinguishing media

: Do not use water jet.

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

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

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### 6. Accidental release measures

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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

: 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). Preferably clean with a detergent. Avoid using solvents.

### 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.

### 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used 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, earth drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws. Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

### Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

### Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

Recommendations : Not available.

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### 7. Handling and storage

Industrial sector specific solutions

: Not available.

### 8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
tetrachloroethylene	ACGIH TLV (United States, 6/2013). STEL: 685 mg/m³ 15 minute(s). STEL: 100 ppm 15 minute(s). TWA: 170 mg/m³ 8 hour(s). TWA: 25 ppm 8 hour(s).
2,2'-iminodiethanol	ACGIH TLV (United States, 2/2010). Absorbed through skin. TWA: 1 mg/m³ 8 hour(s). Form: Inhalable fraction and vapor

# 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### **Derived effect levels**

No DELs available.

#### **Predicted effect concentrations**

No PECs available.

### 8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection Skin protection

: Wear safety glasses with side protection in accordance with EN 166.

**Hand protection** 

: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Gloves** 

: Wear suitable gloves tested to EN374.

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

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### 8. Exposure controls/personal protection

**Body protection** 

Personnel should wear antistatic clothing made of natural fibres or of hightemperature-resistant synthetic fibres.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

If workers are exposed to concentrations above the exposure limit, they must use

appropriate, certified respirators.

**Environmental exposure** 

controls

: Do not allow to enter drains or watercourses.

### 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. Colourless. Colour Characteristic. Odour Not available. **Odour threshold** : Not available. pН : Not available. Melting point/freezing point : 170°C

Initial boiling point and boiling

Flash point

range

Not available. **Evaporation rate** : Not available. Flammability (solid, gas) Not applicable. **Burning time** Not applicable. **Burning rate** 

Upper/lower flammability or

explosive limits

: Not available.

Closed cup: Not applicable.

Not available. Vapour pressure : Not available. Vapour density Not available. **Relative density** Not available. Solubility(ies) : Not available. Partition coefficient: n-

octanol/water

**Auto-ignition temperature** : Not applicable. **Decomposition temperature** Not available.

: Kinematic (40°C): <0,07 cm<sup>2</sup>/s **Viscosity** 

Not available. **Explosive properties** Not available. **Oxidising properties** 

### 9.2 Other information

No additional information.

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### 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

: Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

: When exposed to high temperatures may produce hazardous decomposition products.

10.5 Incompatible materials

: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. Toxicological information

### 11.1 Information on toxicological effects

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 3 and 15 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit 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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. 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.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
tetrachloroethylene	LD50 Oral	Rat - Female	2600 to 3000 mg/kg	-
Diesel nr.2	LC50 Inhalation Dusts and mists	Rat	1 to 5 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>2000 mg/kg >5000 mg/kg	-

Conclusion/Summary

: Not available.

#### **Acute toxicity estimates**

Route	ATE value
	29069,8 mg/kg 4,181 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-iminodiethanol	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

**Conclusion/Summary** 

: Not available.

**Sensitisation** 

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### 11. Toxicological information

Conclusion/Summary

: Not available.

**Mutagenicity** 

**Conclusion/Summary** 

: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
tetrachloroethylene	Category 3	Not determined	Narcotic effects

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Diesel nr.2	Category 2		blood system, liver and lymphatic system
2,2'-iminodiethanol	Category 2	Not determined	Not determined

### **Aspiration hazard**

Product/ingredient name	Result	
Diesel nr.2	ASPIRATION HAZARD - Category 1	

Other information : Not available.

### 12. Ecological information

### 12.1 Toxicity

There are no data available on the preparation itself.

Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 3 and 15 for details.

Product/ingredient name	Result	Species	Exposure
tetrachloroethylene	Acute LC50 5 mg/l	Fish	96 hours
	Chronic NOEC 0,4 mg/L Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 500 ug/L Fresh water	Fish - Pimephales promelas -	32 days
		Larvae - 30 to 35 days	
2,2'-iminodiethanol	EC50 7,8 mg/l	Algae	72 hours
	Acute EC50 55 mg/L Fresh water	Daphnia - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	Acute LC50 1460 mg/l Fresh water	Fish - Gambusia affinis - Adult	96 hours

Conclusion/Summary: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

### 12.3 Bioaccumulative potential

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### 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
tetrachloroethylene	2,53	49	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

### 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### **Hazardous waste**

**Packaging** 

**Methods of disposal** 

- : The classification of the product may meet the criteria for a hazardous waste.
- : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 14. Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN1897	UN1897	UN1897	UN1897
14.2 UN proper shipping name	TETRACHLOROETHYLENE	TETRACHLOROETHYLENE	TETRACHLOROETHYLENE. Marine pollutant (tetrachloroethylene)	Tetrachloroethylene
14.3 Transport hazard class(es)	6.1	6.1	6.1	6.1

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### 14. Transport information

14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
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.			
Additional information	Hazard identification number 60  Limited quantity 5 L  Tunnel code (E)		Emergency schedules (EmS) F-A, S-A	Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 655 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 663 Limited Quantities - Passenger Aircraft Quantity limitation: 2 L Packaging instructions: Y642

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

### 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

**Substances of very high concern** 

None of the components are listed.

Trone of the compensate are note

Annex XVII - Restrictions on the manufacture,

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

**Mixture** 

**Other EU regulations** 

**VOC for Ready-for-Use** 

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: Not applicable.

**Europe inventory** 

: Not determined.

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### 15. Regulatory information

Black List Chemicals : Not listed : Not listed

Integrated pollution prevention and control list (IPPC) - Air

list (IPPC) - Air

: Not listed

Listed

Integrated pollution prevention and control list (IPPC) - Water

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
tetrachloroethylene Diesel nr.2	Carc. 2, H351 Carc. 2, H351	-	-	-

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### **International regulations**

Chemical Weapons
Convention List Schedule I

Chemicals

: Not listed

**Chemical Weapons** 

Convention List Schedule II

**Chemicals** 

: Not listed

Chemical Weapons

**Convention List Schedule III** 

**Chemicals** 

: Not listed

### 15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

### 16. Other information

The information contained herein relates only to the specific material identified. Unimarine Services Inc. Believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Unimarine Services Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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