



# SAFETY DATA SHEET

## Octamar (TM) MP-4 LN

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

#### 1.1 Product identifier

**Product name** : Octamar (TM) MP-4 LN  
**Product code** : 4060  
**Internal code** : 14060  
**Product description** : Mixture  
**Product type** : Liquid.

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

##### Identified uses

Petrochemical industry: Petrochemicals. Fuel additive.

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

**Supplier** : Innospec Limited  
Innospec Manufacturing Park  
Oil Sites Road  
Ellesmere Port  
Cheshire CH65 4EY  
United Kingdom

**Telephone no.:** : +44 (0)151 355 3611  
**Fax no.** : +44 (0)151 356 2349  
**e-mail address of person responsible for this SDS** : sdsinfo@innospecinc.com  
**NON-emergency enquiries** : corporatecommunications@innospecinc.com

#### 1.4 Emergency telephone number

In Europe, Middle East, Africa, Asia Pacific and South America  
24 hour / 7 day emergency response for our products is  
provided by the NCEC CARECHEM 24 global network



The main regional centres are listed here in Section 1. Other local contact numbers for specific language support in Asia Pacific are listed in Section 16.

Country information	Emergency telephone number	Location
Europe ( all countries, all languages )	: +44 (0) 1235 239 670	London, UK
Middle East, Africa ( Arabic, French, English )	: +44 (0) 1235 239 671	Lebanon
Middle East, Africa ( French, Portuguese, English )	: +44 (0) 1235 239 670	London UK
Asia Pacific ( all countries except China )	: +65 3158 1074	Singapore
China	: +86 10 5100 3039	Beijing China
South America ( all countries except Brazil and Mexico )	: +1 215 207 0061	Philadelphia USA

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

Brazil : +55 11 3197 5891 Brazil  
 Mexico : +52 555 004 8763 Mexico

In USA, Canada and North America, 24 h/7 days of emergency response for our product is provided by the CHEMTREC(R) Emergency Call Center based in the USA.

**Country information** : **Emergency telephone number**

USA : 800 424 9300

Canada, Puerto Rico, Virgin Islands : +1 800 424 9300

In case of difficulty using the toll-free number, or for ships at sea, call : +1 703 527 3887

See section 16.

☑ Indicates information that has changed from previously issued version.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

☑ STOT SE 3, H336  
 Asp. Tox. 1, H304  
 Aquatic Chronic 2, H411

See Section 16 for the full text of the 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** : H304 - May be fatal if swallowed and enters airways.  
 H336 - May cause drowsiness or dizziness.  
 H411 - Toxic to aquatic life with long lasting effects.

**Supplemental label elements** : ☑ Contains 2-butanone oxime; ethyl methyl ketone oxime. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

### Precautionary statements

**General** : Not applicable.

**Prevention** : P271 - Use only outdoors or in a well-ventilated area.  
 P273 - Avoid release to the environment.  
 P261 - Avoid breathing vapour.

**Response** : ☑ P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

**Storage** : P405 - Store locked up.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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## SECTION 2: Hazards identification

**Hazardous ingredients** : Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]; Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]; Distillates (petroleum), hydrotreated light; Kerosine

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

**Substance/mixture** : Mixture

Product/ingredient name	Identifiers	%	Classification	
			Regulation (EC) No. 1272/2008 [CLP]	Type
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	REACH #: 01-2119451097-39 EC: 265-198-5, [922-153-0] CAS: 64742-94-5 Index: 649-424-00-3	≥25 - ≤50	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	REACH #: 01-2119463583-34 EC: 265-198-5, [918-811-1] CAS: 64742-94-5 Index: 649-424-00-3	≥25 - ≤50	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
Distillates (petroleum), hydrotreated light; Kerosine	EC: 265-149-8 [926-141-6] CAS: 64742-47-8 Index: 649-422-00-2	≥10 - ≤25	Asp. Tox. 1, H304	[1] [2]
Distillates (petroleum), hydrotreated light	REACH #: 01-2119456620-43 EC: 265-149-8 CAS: 64742-47-8 Index: 649-422-00-2	≤10	Asp. Tox. 1, H304 EUH066	[1] [2]
iron hydroxide oxide yellow	REACH #: 01-2119457554-33 EC: 257-098-5 CAS: 51274-00-1	≤5	Not classified.	[2]
1,2,4-trimethylbenzene	REACH #: Compliant EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 Skin Irrit. 2, H315	[1] [2]
12-Hydroxystearic acid, oligomers, reaction products with stearic acid	REACH #: Compliant CAS: 58128-22-6	≤3		[1]
2-ethylhexanoic acid	REACH #: 01-2119488942-23 EC: 205-743-6 CAS: 149-57-5 Index: 607-230-00-6	≤1	Repr. 2, H361d (Unborn child)	[1]
naphthalene	REACH #: Compliant EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	<1	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
2-butanone oxime; ethyl methyl	REACH #: 01-2119539477-28	≤0.3	Acute Tox. 4, H302	[1]

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### SECTION 3: Composition/information on ingredients

ketone oxime	EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	Acute Tox. 4, H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351  See Section 16 for the full text of the H statements declared above.
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#### Additional information

#### 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
- [5] Substance of equivalent concern

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

Our REACH (pre-) registrations DO NOT cover the following:

1. The manufacture of these products by our company outside the EU unless covered by the Only Representative provisions, and
  2. The importation of these products into Europe by other companies. Re-importation by other companies is not covered by our (pre-) registrations
- Customers and other third parties importing and/or re-importing our products into Europe will need either:
- Their own (pre-) registration for substances contained in the imported product, or constituent monomers (imported above 1 tonne per year and >2% by weight) in the case of imported polymers, or
  - In the case of importation only, to make use of the "Only Representative" provisions, if available.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Wash out mouth with water. Stop if the exposed person feels sick as vomiting may be dangerous. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- 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

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## SECTION 4: First aid measures

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- 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  
dryness  
cracking
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### 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

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

- Hazards from the substance or mixture** :  In a fire or if heated, a pressure increase will occur and the container may burst. 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 thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : 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.

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## SECTION 5: Firefighting measures

- Special protective equipment for fire-fighters** : 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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 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

- : Avoid dispersal of spilt 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. Collect spillage.

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

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt 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

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

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.



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## SECTION 7: Handling and storage

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

**Storage** : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 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
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	<b>Supplier/Manufacturer (Europe, 2015).</b> EU HSPA (RCP Aromatic solvents 180 - 215): 151 mg/m <sup>3</sup> 8 hours.
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	<b>Supplier/Manufacturer (Europe, 2015).</b> EU HSPA (RCP Aromatic solvents 180 - 215): 151 mg/m <sup>3</sup> 8 hours.
Distillates (petroleum), hydrotreated light; Kerosine	<b>Innospec (Europe).</b> TWA: 152 ppm, (Vapour Hydrocarbon.)
Distillates (petroleum), hydrotreated light	<b>EU OEL (Europe, 2009).</b> Supplier's information Reciprocal Calculation Procedure (RCP) : 1200 mg/m <sup>3</sup> 8 hours.
iron hydroxide oxide yellow	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> STEL: 10 mg/m <sup>3</sup> , (as Fe) 15 minutes. Form: Fume TWA: 5 mg/m <sup>3</sup> , (as Fe) 8 hours. Form: Fume
1,2,4-trimethylbenzene	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 25 ppm, 0 times per shift, 8 hours. TWA: 125 mg/m <sup>3</sup> , 0 times per shift, 8 hours.
naphthalene	<b>EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values</b> TWA: 10 ppm 8 hours. TWA: 50 mg/m <sup>3</sup> , 0 times per shift, 8 hours.

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## SECTION 8: Exposure controls/personal protection

**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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	DNEL	Long term Dermal	12.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	151 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Inhalation	7.5 mg/kg bw/day	Consumers	Systemic
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	DNEL	Long term Dermal	12.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	151 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	32 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	7.5 mg/kg bw/day	Consumers	Systemic
1,2,4-trimethylbenzene	DNEL	Short term Inhalation	100 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	100 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Dermal	16171 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	100 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	100 mg/m <sup>3</sup>	Workers	Local
	DNEL	Short term Inhalation	29.4 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	29.4 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	9512 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	29.4 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	15 mg/kg bw/day	Consumers	Systemic
DNEL	Long term	29.4 mg/m <sup>3</sup>	Consumers	Local	



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

2-ethylhexanoic acid	DNEL	Inhalation Short term	106.4 mg/m <sup>3</sup>	Workers	Local
	DNEL	Inhalation Long term Dermal	23 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	53.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Inhalation	53.2 mg/m <sup>3</sup>	Consumers	Local
	DNEL	Long term Dermal	11.4 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	2.3 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	1.1 mg/kg bw/day	Consumers	Systemic
naphthalene	DNEL	Long term Dermal	3.57 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m <sup>3</sup>	Workers	Local

**PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
1,2,4-trimethylbenzene	PNEC	Fresh water	0.12 mg/l	-
	PNEC	Marine	0.12 mg/l	-
	PNEC	Sewage Treatment Plant	2.41 mg/l	-
2-ethylhexanoic acid	PNEC	Fresh water sediment	13.56 mg/kg dwt	-
	PNEC	Marine water sediment	13.56 mg/kg dwt	-
	PNEC	Soil	2.34 mg/kg dwt	-
	PNEC	Fresh water	0.017 mg/l	-
	PNEC	Marine	0.0017 mg/l	-
	PNEC	Sewage Treatment Plant	10 mg/l	-
naphthalene	PNEC	Fresh water sediment	0.28 mg/kg dwt	-
	PNEC	Marine water sediment	0.028 mg/kg dwt	-
	PNEC	Soil	0.047 mg/kg dwt	-
	PNEC	Fresh water	2.4 µg/l	-
	PNEC	Marine	0.24 µg/l	-
	PNEC	Sewage Treatment Plant	2.9 mg/l	-
	PNEC	Fresh water sediment	67.2 µg/kg dwt	-
PNEC	Marine water sediment	67.2 µg/kg dwt	-	
PNEC	Soil	53.3 µg/kg dwt	-	

**8.2 Exposure controls**

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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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: safety glasses with side-shields. Recommended: splash goggles
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): Viton®  
1 - 4 hours (breakthrough time): nitrile rubber
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A)
- 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

#### Appearance

- Physical state** : Liquid.
- Colour** : Red. [Dark]
- Odour** : Aromatic.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Lowest known value: 168.01°C (334.4°F) (1,2,4-trimethylbenzene). Weighted average: 204.94°C (400.9°F)
- Flash point** : Closed cup: 61 to 93.3°C (141.8 to 199.9°F) [Pensky-Martens.]
- Evaporation rate** : 00 (Distillates (petroleum), hydrotreated light) compared with ether (anhydrous)
- Flammability (solid, gas)** : Not available.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Upper/lower flammability or explosive limits** : Greatest known range: Lower: 0.5% Upper: 8% (Distillates (petroleum), hydrotreated light)
- Vapour pressure** : Highest known value: 0.1 kPa (0.8 mm Hg) (at 20°C) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 0.09 kPa (0.68 mm Hg) (at 20°C)

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## SECTION 9: Physical and chemical properties

<b>Vapour density</b>	: Highest known value: 4.6 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy arom.). Weighted average: 4.53 (Air = 1)
<b>Relative density</b>	: Not available.
<b>Density</b>	: 1.03 g/cm <sup>3</sup> [15°C (59°F)]
<b>Solubility(ies)</b>	: Insoluble in the following materials: cold water, hot water.
<b>Partition coefficient: n-octanol/ water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Lowest known value: 236°C (456.8°F) (Distillates (petroleum), hydrotreated light).
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Kinematic (40°C (104°F)): >0.07 cm <sup>2</sup> /s (>7 cSt)
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not applicable.

### 9.2 Other information

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: No specific data.
<b>10.5 Incompatible materials</b>	: No specific data.
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Test	Species	Result type	Dose	
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Rat	LC50 Inhalation Vapour	>590 mg/m <sup>3</sup>	4 hours
	-	Rabbit	LD50 Dermal	>2 mL/kg	-
	-	Rabbit	LD50 Dermal	2000 mg/kg	-
	-	Rat	LDLo Oral	5 mL/kg	-
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Rat	LC50 Inhalation Vapour	>590 mg/m <sup>3</sup>	4 hours
	-	Rabbit	LD50 Dermal	>2 mL/kg	-
	-	Rabbit	LD50 Dermal	2000 mg/kg	-

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## SECTION 11: Toxicological information

Distillates (petroleum), hydrotreated light	-	Rat	LDLo Oral	5 mL/kg	-
	OECD 403 Acute Inhalation Toxicity	Rat	LC50 Inhalation Vapour	>5000 mg/m <sup>3</sup>	8 hours
2-ethylhexanoic acid	-	Rabbit	LD50 Dermal	>5000 mg/kg	-
	OECD 402 Acute Dermal Toxicity	Rabbit	LD50 Dermal	>5000 mg/kg	-
	OECD 401 Acute Oral Toxicity	Rat	LD50 Oral	>5000 mg/kg	-
naphthalene	-	Rabbit	LD50 Dermal	>2000 mg/kg	-
	-	Rat	LD50 Oral	3640 mg/kg	-
2-butanone oxime; ethyl methyl ketone oxime	-	Rat	LC50 Inhalation Vapour	>340 mg/m <sup>3</sup>	1 hours
	-	Rabbit	LD50 Dermal	>2000 mg/kg	-
	-	Rat	LD50 Dermal	>2500 mg/kg	-
	-	Rat	LD50 Oral	490 mg/kg	-
	-	Rat	LD50 Oral	930 mg/kg	-
	-	Rat	LD50 Oral	930 mg/kg	-

### Acute toxicity estimates (ATE)

Route	ATE value
Inhalation (vapours)	683.2 mg/l

### Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Rabbit	Skin - Mild irritant -
	-	Mammal - species unspecified	Eyes - Mild irritant -
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Rabbit	Skin - Mild irritant -
	-	Mammal - species unspecified	Eyes - Mild irritant -
2-ethylhexanoic acid	-	Rabbit	Skin - Mild irritant -
2-butanone oxime; ethyl methyl ketone oxime	-	Rabbit	Eyes - Severe irritant -

### Sensitisation

Product/ingredient name	Test	Species	Result
Distillates (petroleum), hydrotreated light	-	Rat	Not sensitizing -
2-butanone oxime; ethyl methyl ketone oxime	OECD 406 Skin Sensitization	Rabbit	Sensitising -

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Distillates (petroleum), hydrotreated light	-	Experiment: In vivo Subject: Bacteria	Negative

### Reproductive toxicity

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## SECTION 11: Toxicological information

Product/ingredient name	Test	Species	Result	Dose
2-ethylhexanoic acid	-	Rat - Male, Female	Developmental effects Unborn child	Oral: 600 mg/kg

**Information on likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

### 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** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : No specific data.
- 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  
dryness  
cracking
- Ingestion** : Adverse symptoms may include the following:  
nausea or vomiting

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Test	Species	Exposure	Result
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Algae	72 hours	Acute EC50 1 to 3 mg/l
	-	Daphnia	48 hours	Acute EC50 3 to 10 mg/l
	-	Fish	96 hours	Acute LC50 2 to 5 mg/l
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	Algae	72 hours	Acute EC50 1 to 3 mg/l
	-	Daphnia	48 hours	Acute EC50 3 to 10 mg/l
	-	Fish	96 hours	Acute LC50 2 to 5 mg/l
1,2,4-trimethylbenzene	-	Fish - Pimephales promelas	96 hours	Acute LC50 7.72 mg/l
	-	Micro-organism	0.1 days	Acute EC50 >100 mg/l
12-Hydroxystearic acid, oligomers, reaction products with stearic acid	Micro-organism acute toxicity	Micro-organism	0.3 days	Acute EC50 >100 mg/l
	203 Fish, Acute Toxicity Test	Fish	96 hours	Acute LC50 >100 mg/l
2-ethylhexanoic acid	-	Daphnia	48 hours	EC50 85.4 mg/l
naphthalene	-	Daphnia - Water flea - Daphnia magna	48 hours	Acute EC50 1.96 mg/l Fresh water
	-	Crustaceans - Daggerblade grass shrimp - Palaemonetes pugio	48 hours	Acute LC50 2350 µg/l Marine water
	-	Fish - Oncorhynchus mykiss	96 hours	Acute LC50 1.6 mg/l
	-	Micro-organism	17 hours	Acute EC20 >177 mg/l
2-butanone oxime; ethyl methyl ketone oxime	-	Algae	72 hours	Acute EC50 83 mg/l
	-	Daphnia	48 hours	Acute EC50 750 mg/l
	-	Fish - Pimephales promelas	96 hours	Acute LC50 843 mg/l

### 12.2 Persistence and degradability



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## SECTION 12: Ecological information

Product/ingredient name	Test	Result
Distillates (petroleum), hydrotreated light; Kerosine Distillates (petroleum), hydrotreated light 12-Hydroxystearic acid, oligomers, reaction products with stearic acid	OECD 301F Ready Biodegradability - Manometric Respirometry Test	61 % - Readily - 28 days
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	69 % - Readily - 28 days
	301D Ready Biodegradability - Closed Bottle Test	60 % - 28 days
	301C Ready Biodegradability - Modified MITI Test (I)	20 % - 28 days
2-ethylhexanoic acid	-	83 % - Readily - 20 days
2-butanone oxime; ethyl methyl ketone oxime	301D Ready Biodegradability - Closed Bottle Test	76 % - Readily - 10 days
	EU 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	70 % - Readily - 14 days

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	-	Inherent
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	-	Inherent
Distillates (petroleum), hydrotreated light; Kerosine	-	-	Readily
Distillates (petroleum), hydrotreated light	-	-	Readily
12-Hydroxystearic acid, oligomers, reaction products with stearic acid	-	-	Not readily
2-ethylhexanoic acid	-	-	Readily
2-butanone oxime; ethyl methyl ketone oxime	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Hydrocarbons C10-C13, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	-	<100	low
Hydrocarbons C10, Aromatics, <1% Naphthalene, [Solvent naphtha (petroleum), heavy arom.]	2.8 to 6.5	<100	low
Distillates (petroleum), hydrotreated light	6 to 8	-	high
1,2,4-trimethylbenzene	4.09	275	low
2-ethylhexanoic acid	2.7	-	low
naphthalene	3.3	>100	low

### 12.4 Mobility in soil

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## SECTION 12: Ecological information

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

## SECTION 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).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : 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.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	UN3082	UN3082	UN3082	UN3082
<b>14.2 UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), heavy arom.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), heavy arom.)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), heavy arom.). Marine pollutant (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), heavy arom.)	Environmentally hazardous substance, liquid, n.o.s. (Solvent naphtha (petroleum), heavy arom., Solvent naphtha (petroleum), heavy arom.)

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## SECTION 14: Transport information

14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p><b>Hazard identification number</b> 90</p> <p><b>Limited quantity</b> 5 L</p> <p><b>Special provisions</b> 274, 335, 601, 375</p> <p><b>Tunnel code</b> (E)</p>	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p><b>Special provisions</b> 274, 335, 375, 601</p>	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p><b>Emergency schedules (EmS)</b> F-A, S-F</p> <p><b>Special provisions</b> 274, 335, 969</p>	
14.6 Special precautions for user				
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code				

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

[Substances of very high concern](#)

None of the components are listed.

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## SECTION 15: Regulatory information

Not applicable.

**Annex XVII - Restrictions** :  
on the manufacture,  
placing on the market  
and use of certain  
dangerous substances,  
mixtures and articles

### Other EU regulations

#### Seveso Directive - Reporting thresholds (in tonnes)

##### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
2: Hazardous to the aquatic environment - Chronic 2	200	500
9ii: Toxic for the environment	200	500

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Not determined

**Industrial emissions** : Not listed

**(integrated pollution prevention and control) - Air**

**Industrial emissions** : Not listed

**(integrated pollution prevention and control) - Water**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
2-ethylhexanoic acid	-	-	Repr. 2, H361d (Unborn child)	-
naphthalene	Carc. 2, H351	-	-	-
2-butanone oxime; ethyl methyl ketone oxime	Carc. 2, H351	-	-	-

**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

### International lists

**Australia inventory (AICS)** : All components are listed or exempted.

**Canada inventory** : All components are listed or exempted.

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## SECTION 15: Regulatory information

- China inventory (IECSC)** : All components are listed or exempted.
- EU Inventory (EINECS/ELINCS/NLP)** : All components are listed or exempted.
- Japan inventory (ENCS)** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- Korea inventory (KECI)** : All components are listed or exempted.
- New Zealand Inventory of Chemicals (NZIoC)** : All components are listed or exempted.
- Philippines inventory (PICCS)** : All components are listed or exempted.
- Taiwan inventory (TCSI)** : All components are listed or exempted.
- United States inventory (TSCA 8b)** : All components are listed or exempted.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	Expert judgment Calculation method Expert judgment

**Full text of abbreviated H statements** :

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

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## SECTION 16: Other information

<b>Full text of classifications [CLP/GHS]</b>	: Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Asp. Tox. 1, H304 Carc. 2, H351 EUH066 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 2, H361d Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335  STOT SE 3, H336	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY (Unborn child) - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
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### Emergency contact numbers for local language support in Asia Pacific region

Country information	Languages supported	Telephone no.:	Location
Australia	English	+61 2 8014 4558	Australia
Bangladesh	Bengali, English	+65 3158 1200	Singapore
China	Mandarin, English	+86 10 5100 3039	Beijing China
India	Hindi, English	+65 3158 1198	Singapore
India ( local toll free number )	Hindi, English	000800 100 7479	India
Indonesia (local toll free number)	Bahasa Indonesian, English	00780 3011 0293	Indonesia
Japan	Japanese, English	+81 3 4578 9341	Japan
Korea	Korean, English	+65 3158 1285	Singapore
Malaysia	Bahasa Malaysian, English	+60 3 6207 4347	Malaysia
New Zealand	English	+64 9929 1483	New Zealand
Pakistan	Urdu, English	+65 3158 1329	Singapore
Philippines	Tagalog, English	+65 3158 1203	Singapore
Sri Lanka	Sinhalese, English	+65 3158 1195	Singapore
Thailand (local toll free number)	Thai, English	001800 1 2066 6751	Thailand
Vietnam	Vietnamese, English	+65 3158 1255	Singapore

#### Notice to reader



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## **SECTION 16: Other information**

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.