

# SAFETY DATA SHEET Octamar™ HF-10 Plus

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

1.1 Product identifier

Product name : Octamar™ HF-10 Plus

Product code : VF-000096
Internal code : VF-000096
Date of issue/ Date of revision : 2022-09-13
Date of previous issue : 2022-09-02

Version : 2
Product type : Liquid.
Chemical identity : Not available.

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

Industrial applications: Fuel additive.

1.3 Details of the supplier of the safety data sheet

UK 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
 : sdsinfo@innospecinc.com

responsible for this SDS

**EU Supplier** : Innospec Limited

Boite Postale 19, F-55300 St. Mihiel Han-sur-Meuse, Meuse, France

+ 33 3 2991 7300

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 Location number

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

Europe ( all countries, all languages ) : +44 (0) 1235 239 670 London, UK Middle East, Africa ( Arabic, French, English , Portuguese, : +44 (0) 1235 239 671 London, UK

Farsi)

Asia Pacific ( all countries except China ) : +65 3158 1074 Singapore

China : 400 120 6011 Beijing China

South America ( all countries except Brazil and Mexico ) : +1 215 207 0061 Philadelphia USA

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 : +1 703 527 3887

ships at sea, call 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]

Asp. Tox. 1, H304 Aquatic Chronic 3, H412

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.

H412 - Harmful to aquatic life with long lasting effects.

Supplemental label

elements

: Contains maleic anhydride. May produce an allergic reaction.

**Precautionary statements** 

General : Not applicable.

**Prevention**: P273 - Avoid release to the environment.

Response : P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor. Do NOT induce vomiting.

Storage : Not applicable.

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

national and international regulations.

**Hazardous ingredients**: Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates

(petroleum), hydrotreated light] and Hydrocarbons, C10, aromatics, >1%

naphthalene [Solvent naphtha (petroleum), heavy arom.]

#### **SECTION 2: Hazards identification**

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No.

: Not applicable.

1907/2006, Annex XIII Substance meets the

: Not applicable.

criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not result in classification

: None known.

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

Substance/mixture : Mixture

			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light]	REACH #: 01-2119456620-43 EC: 926-141-6 CAS: 64742-47-8 Index: 649-422-00-2	≥50 - ≤75	Asp. Tox. 1, H304 EUH066	[1] [2]
Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.	REACH #: 01-2119463588-24, EC: 919-284-0 CAS: 64742-94-5	≤11	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
Formaldehyde, polymer with nonylphenol	CAS: 9040-65-7	<10	Skin Irrit. 2, H315	[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]
4-nonylphenol, branched	EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≤0.029	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) See Section 16 for the full text of the H statements declared above.	[1] [5]

#### **Additional CAS # used in National Inventories**

 $Hydrocarbons,\,C11\text{-}14,\,n\text{-}alkanes,\,isoalkanes,\,cyclics,\,<\!2\%\,\,aromatics$ 

[Distillates (petroleum), hydrotreated light]

Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha

(petroleum), heavy arom.]

Formaldehyde, polymer with nonylphenol naphthalene

Phenol, 4-nonyl-, branched

**Additional information** 

Date of issue/Date of revision : 2022-09-13

64742-47-8 [1174522-15-6]

64742-94-5

3/17

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

#### **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
- [6] Additional disclosure due to company policy

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 if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. 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.

Skin contact

: Flush contaminated skin with plenty of water. 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. 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
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 May be fatal if swallowed and enters airways.

#### Over-exposure signs/symptoms

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.

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

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

: 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.

# 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.

nitrogen oxides

#### 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 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.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide carbon monoxide

#### 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.

**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.

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

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

#### **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. 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.

# 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 : Not available.

solutions

# **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** 

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

Product/ingredient name	Exposure limit values
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light] Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] naphthalene	EU OEL (Europe, 2009).  Supplier's information Reciprocal Calculation Procedure (RCP): 1200 mg/m³ 8 hours.  Supplier/Manufacturer (Europe, 2015).  EU HSPA (RCP Aromatic solvents 180 - 215): 151 mg/m³ 8 hours.  EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values  TWA: 10 ppm 8 hours.  TWA: 50 mg/m³, 0 times per shift, 8 hours.

# procedures

**Recommended monitoring**: 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, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.]	DNEL	Long term Dermal	12.5 mg/ kg bw/day	Workers	Systemic
(real electric), meanly electric	DNEL	Long term Inhalation	151 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	7.5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	32 mg/m³	Consumers	Systemic
	DNEL	Long term Oral	7.5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	2.1 mg/kg bw/day	General population	Systemic
	DMEL	Long term Inhalation	3.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	10.2 mg/m³	General population	Systemic
	DMEL	Long term Dermal	23.4 mg/ kg bw/day	Workers	Systemic
	DMEL	Long term Dermal	42.4 mg/ kg bw/day	General population	Systemic
naphthalene	DNEL	Long term Dermal	3.57 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	Workers	Local
	DNEL	Long term Dermal	3.57 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	25 mg/m³	Workers	Local
	DNEL	Long term Inhalation	25 mg/m³	Workers	Systemic
4-nonylphenol, branched	DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemic

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

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DNEL	Short term Inhalation	1 mg/m³	Workers	Systemic
DNEL	Long term Dermal	7.5 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Dermal	7.6 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Short term Inhalation	0.8 mg/m <sup>3</sup>	General population [Consumers]	Systemic
DNEL	Short term Oral	0.4 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Dermal	3.8 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Inhalation	0.4 mg/m <sup>3</sup>	General population [Consumers]	Systemic
DNEL	Long term Oral	0.08 mg/ kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Oral	0.08 mg/ kg bw/day	General population	Systemic
DNEL	Short term Oral	0.4 mg/kg bw/day	General population	Systemic
DNEL	Long term Inhalation	0.4 mg/m <sup>3</sup>	General population	Systemic
DNEL	Long term Inhalation	0.5 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Short term Inhalation	0.8 mg/m <sup>3</sup>	General population	Systemic
DNEL	Short term Inhalation	1 mg/m³	Workers	Systemic
DNEL	Long term Dermal	3.8 mg/kg bw/day	General population	Systemic
DNEL	Long term Dermal	7.5 mg/kg bw/day	Workers	Systemic
DNEL	Short term Dermal	7.6 mg/kg bw/day	General population	Systemic
DNEL	Short term Dermal	15 mg/kg bw/day	Workers	Systemic

#### **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
naphthalene	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	-
4-nonylphenol, branched	-	Fresh water	0.000614 mg/l	-
	-	Marine water	0.000527 mg/l	-
	-	Intermittent release	0.00017 mg/l	-
	-	Fresh water sediment	4.62 mg/kg dwt	-
	-	Marine water sediment	1.23 mg/kg dwt	-
	-	Sewage Treatment	9.5 mg/l	-
		Plant		
	-	Soil	2.3 mg/kg dwt	-
	-	Secondary Poisoning	2.36 mg/kg	-

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

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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.

#### **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.

#### **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.

#### **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.

# **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 : Yellowish-brown.

Odour : Not available.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Initial boiling point and

boiling range

: Lowest known value: 178 to 215°C (352.4 to 419°F)(Solvent naphtha (petroleum), heavy arom.). Weighted average: 245.19°C (473.3°F)

Flash point : Closed cup: 70°C (158°F)

**Evaporation rate** : 0.05 (Solvent naphtha (petroleum), heavy arom.) compared with butyl acetate

Flammability (solid, gas) : Not available.

Burning time : Not applicable.

# SECTION 9: Physical and chemical properties

**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: 0.06 kPa (0.45 mm Hg) (at 20°C)

Vapour density Highest known value: 4.6 to 5.5 (Air = 1) (Solvent naphtha (petroleum), heavy

arom.). Weighted average: 1.66 (Air = 1)

Relative density : 0.87172

0.8738 g/cm<sup>3</sup> [15°C (59°F)] **Density** 

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

Partition coefficient: n-octanol/ : Not available.

water

: Lowest known value: >230°C (>446°F) (Distillates (petroleum), hydrotreated **Auto-ignition temperature** 

light).

**Decomposition temperature** 

**Viscosity** 

: Not available.

Dynamic (room temperature): 14 mPa·s (14 cP)

Kinematic (40°C (104°F)): 0.08437 cm<sup>2</sup>/s (8.437 cSt)

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

9.2 Other information

# 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 : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : 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, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light]	OECD 403 Acute Inhalation Toxicity	Rat	LC50 Inhalation Vapour	>5000 mg/m³
"grid	OECD 402 Acute Dermal Toxicity	Rabbit	LD50 Dermal	>5000 mg/kg
Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy	OECD 401 Acute Oral Toxicity	Rat Rat	LD50 Oral LC50 Inhalation Vapour	>5000 mg/kg >590 mg/m³

Octamar™	HF-10	Plus
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<b>SECTION 11:</b>	<b>Toxicological</b>	information
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arom.]				
	-	Rabbit	LD50 Dermal	>2 mL/kg
	-	Rabbit	LD50 Dermal	2000 mg/kg
	-	Rat	LDLo Oral	5 mL/kg
naphthalene	-	Rat	LC50	>340 mg/m³
			Inhalation	_
			Vapour	
	-	Rabbit	LD50 Dermal	>2000 mg/kg
	-	Rat	LD50 Oral	490 mg/kg
4-nonylphenol, branched	-	Rat	LD50 Oral	1300 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Test	Species	R	esult	
Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.]	-	Rabbit	Skin - Mild irritant	-	-
	-	Mammal - species unspecified	Eyes - Mild irritant	-	-
4-nonylphenol, branched	-	Rabbit Rabbit	Eyes - Severe irritant Skin - Severe irritant	-	-

#### **Sensitisation**

Product/ingredient name	Test	Species	Result
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light]	-	Rat	Not sensitizing -

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light]	-	Experiment: In vivo Subject: Bacteria	Negative

**Information on likely routes**: Not available.

of exposure

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : May be fatal if swallowed and enters airways.

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

: No specific data. **Eye contact** Inhalation : No specific data. **Skin contact** : No specific data.

: Adverse symptoms may include the following: Ingestion

nausea or vomiting

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

# **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

**Potential delayed effects** : Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

**General** : No known significant effects or critical hazards. 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.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Test	Species	Exposure	Result
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
naphthalene	-	Daphnia - Water flea - Daphnia magna Crustaceans -	48 hours 48	Acute EC50 1.96 mg/l Fresh water Acute LC50 2350 µg/l
		Daggerblade grass shrimp -	hours	Marine water
	-	Palaemonetes pugio Fish - Oncorhynchus mykiss	96 hours	Acute LC50 1.6 mg/l
	-	Crustaceans - Fiddler crab - Uca pugnax - Adult	3 weeks	Chronic NOEC 0.5 mg/ I Marine water
	-	Fish - Mozambique tilapia - Oreochromis mossambicus	60 days	Chronic NOEC 1.5 mg/ I Fresh water
4-nonylphenol, branched	-	Algae - Diatom - Skeletonema costatum	72 hours	Acute EC50 0.03 mg/l Marine water
	-	Algae - Diatom - Skeletonema costatum	96 hours	Acute EC50 0.027 mg/ I Marine water
	-	Crustaceans - Amphipod - Eohaustorius estuarius - Adult	48 hours	Acute EC50 137 to 160 µg/l Marine water
	-	Algae - Diatom - Skeletonema costatum	96 hours	Chronic EC10 0.012 mg/l Marine water
	-	Crustaceans - Scud - Gammarus fossarum - Adult	21 days	Chronic NOEC 5 µg/l Fresh water
	-	Fish - Fathead minnow - Pimephales	33 days	Chronic NOEC 7.4 µg/l Fresh water

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

Octamar™ HF-10 Plus

# **SECTION 12: Ecological information**

promelas - Embryo

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result
	OECD 301F Ready Biodegradability - Manometric Respirometry Test	69 % - Readily - 28 days

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light] Hydrocarbons, C10, aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy	-	-	Readily
arom.]			

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics, <2% aromatics [Distillates (petroleum), hydrotreated light] Hydrocarbons, C10,	6 to 8	<100	high
aromatics, >1% naphthalene [Solvent naphtha (petroleum), heavy arom.] naphthalene 4-nonylphenol, branched	3.4 5.4	36.5 to 168 740	low high

#### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**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** 

**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.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	
14.6 Special precautions for user				
14.7 Transport in bulk according to IMO instruments				

# **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

None of the components are listed.

Substances of very high concern

### SECTION 15: Regulatory information

Annex XVII - Restrictions : Not applicable. on the manufacture,

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

Other EU regulations

**Industrial emissions** (integrated pollution prevention and control) - : Not listed

Air

**Industrial emissions** (integrated pollution prevention and control) - : Not listed

Water

Product/ingredient name	Carcinogenic effects	•	Developmental effects	Fertility effects
naphthalene 4-nonylphenol, branched	Not supported -	-	-	-

**Chemical Weapons** 

**Convention List Schedule I** 

**Chemicals** 

**Chemical Weapons** 

Convention List Schedule II

Chemicals

: Not listed

: Not listed

**Chemical Weapons** 

**Convention List Schedule III** 

Chemicals

: Not listed

#### **International lists**

Canada inventory

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

**China inventory (IECSC)** 

: All components are listed or exempted.

**EU REACH Status** 

: Please contact your supplier for information on the REACH status of this material.

Japan inventory

: Not determined.

**Korea REACH Status** 

: Please contact your supplier for information on the REACH status of this material.

Chemicals (NZIoC)

**New Zealand Inventory of**: All components are listed or exempted.

**Philippines inventory** 

(PICCS)

: All components are listed or exempted.

**Taiwan REACH Status** 

: Please contact your supplier for information on the REACH status of this material.

**Turkey REACH Status** 

: Please contact your supplier for information on the REACH status of this material.

**United States inventory** 

(TSCA 8b)

: All components are listed or exempted.

# **SECTION 15: Regulatory information**

15.2 Chemical safety assessment

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

Not to be used for hydraulic fracking applications

#### **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]

		Tregulation (EG/140: 1212/2000 [CE170110]	
Classification		Justification	
Asp. Tox. 1, H304 Aquatic Chronic 3, H412		Calculation method Calculation method	
Full text of abbreviated H statements	H314 Causes severe s H315 Causes skin irrit H318 Causes serious H336 May cause drow H351 Suspected of ca H361 Suspected of da H400 Very toxic to aqu H410 Very toxic to aqu H411 Toxic to aquatic H412 Harmful to aqua	wallowed and enters airways. skin burns and eye damage. sation. eye damage. vsiness or dizziness. susing cancer. smaging fertility or the unborn child. suatic life. suatic life with long lasting effects. life with long lasting effects. stic life with long lasting effects. sure may cause skin dryness or cracking.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4 Aquatic Acute 1  Aquatic Chronic 1  Aquatic Chronic 2  Aquatic Chronic 3  Asp. Tox. 1 Carc. 2 Eye Dam. 1 Repr. 2 Skin Corr. 1B Skin Irrit. 2 STOT SE 3	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
Date of printing	: 2022-09-13		

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

Date of issue/ Date of : 2022-09-13

revision

Date of previous issue : 2022-09-13

Version : 2

# **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	400 120 6011	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	+63 2 8231 2149	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**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. 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.