

SAFETY DATA SHEET

Octamar (TM) LI-5

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

1.1 Product identifier	
Product name	: Octamar (TM) LI-5
Product code	: FS-000196
Internal code	: 14021
Product description	: Mixture
Product type	: Liquid.
1.2 Relevant identified use	es 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)	1	+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

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

Brazil

Mexico

: +55 11 3197 5891

: Emergency telephone number

: +52 555 004 8763

: 800 424 9300

: +1 800 424 9300

: +1 703 527 3887

Brazil 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

USA

Canada, Puerto Rico, Virgin Islands

In case of difficulty using the toll-free number, or for 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]

Eye Dam. 1, H318

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



Signal word	Danger		
Hazard statements	H318 - Causes serious eye damage. H411 - Toxic to aquatic life with long lasting effects.		
Supplemental label elements	Not applicable.		
Precautionary statements			
General	Not applicable.		
Prevention	P280 - Wear eye or face protection: Recommended: splash goggles. P273 - Avoid release to the environment.		
Response	P305 + P351 + P310 - IF IN EYES: Rinse cautiously with water for several Immediately call a POISON CENTER or physician.	minutes.	
Storage	Not applicable.		
Disposal	P501 - Dispose of contents and container in accordance with all local, region national and international regulations.	onal,	
Hazardous ingredients	Reaction mass of 2,6-di-tert-butylphenol and 2,4,6-tri-tert-butylphenol		
Special packaging requirements			
Containers to be fitted with child-resistant fastenings	Not applicable.		
Tactile warning of danger	Not applicable.		

SECTION 2: Hazards identification

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

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			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri-tert- butylphenol	REACH #: 01-2119538013-51 EC: 204-884-0, 211-989-5 [907-745-9] CAS: 128-39-2, 732-26-3	≤10	Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1]

Additional information

<u>Type</u>

[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	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. 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. 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	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effect	s	
Eye contact	:	Causes serious eye damage.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	No known significant effects or critical hazards.
Ingestion	1	No known significant effects or critical hazards.
Over-exposure signs/sympton	on	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains
4.3 Indication of any immedia	te	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.

SECTION 5: Firefighting measures

 Decomposition products may include the following materials: carbon dioxide carbon monoxide
Aliphatic carboxylic acid.: This material increases the risk of fire and may aid combustion.
: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
: Fire-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, pro	te	ctive 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. Do not breathe 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	со	ntainment 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 get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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	e, 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 Industrial sector specific solutions	Not available.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

No exposure limit value known.

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

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri-tert- butylphenol	DNEL DNEL	Long term Dermal	0.5 mg/kg bw/day 3.5 mg/m ³	Workers Workers	-
		Inhalation	e.eg		

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri-tert- butylphenol	-	Fresh water	0.3 µg/l	-
	- - - -	Marine water Fresh water sediment Marine water sediment Soil Sewage Treatment Plant	0.03 µg/l 0.09 mg/kg dwt 0.009 mg/kg dwt 0.044 mg/kg dwt 2.4 mg/l	- - - -

8.2 Exposure controls	
Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapour or mist, 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 meas	<u>sures</u>
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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. 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)

SECTION 8: Exposure controls/personal protection

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure
controls	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

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9.1 Information on basic physical	l aı	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid.
Colour	:	Yellow.
Odour	:	Aromatic.
Odour threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	<-10°C
Initial boiling point and boiling range	:	✓west known value: >200°C (>392°F)(Aliphatic carboxylic acid.).
Flash point	:	Closed cup: 96°C (204.8°F) [Pensky-Martens.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Ħghest known value: <0.0001 kPa (<0.001 mm Hg) (at 20°C) (Aliphatic carboxylic acid.).
Vapour density	:	Not available.
Relative density	:	Not available.
Density	1	0.909 g/cm³ [15°C (59°F)]
Solubility(ies)	:	Easily soluble in the following materials: diethyl ether, acetone. Very slightly soluble in the following materials: hot water. Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	✓ west known value: 362°C (683.6°F) (Aliphatic carboxylic acid.).
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): 0.16 cm²/s (16 cSt)
Explosive properties	:	Not available.
Oxidising properties	:	Not available.
9.2 Other information		
Pour point	:	-15°C

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
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri- tert-butylphenol	OECD 402 Acute Dermal Toxicity	Rat - Male, Female	LD50 Dermal	>2000 mg/kg -
	OECD 401 Acute Oral Toxicity	Rat - Male, Female	LD50 Oral	2976 mg/kg -

Irritation/Corrosion

Product/ingredient name	Test	Species	Result	
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri- tert-butylphenol	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Oedema	0
	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Cornea opacity	3
	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Redness of the conjunctivae	3

Sensitisation

Product/ingredient name	Test	Species	Result
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri- tert-butylphenol	-	Guinea pig	Not sensitizing -

Information on likely routes	: Routes of entry anticipated: Oral, Dermal, Inhalation.
of exposure	
Potential acute health effects	

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SECTION 11: Toxicological information

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate : Not available. effects Potential delayed effects : Not available. Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
General	: No known significant effe

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
Øctamar (TM) LI-5	-	Fish	96 hours	Acute LC50 10 to 20 mg/l Estimated.
Reaction mass of 2,6-di-tert-	OECD 201 Alga,	Algae - S.	72	Acute EC50 4.9 mg/l Key
butylphenol and 2,4,6-tri-tert- butylphenol	Growth Inhibition Test	capricornutum	hours	data sources
	EU C.2 202	Daphnia	48	Acute EC50 0.4 mg/l Key
	Daphnia sp. Acute Immobilisation Test		hours	data sources
	EU C.1 203 Fish,	Fish - Oncorhynchus	96	Acute LC50 0.3 mg/l Key
	Acute Toxicity Test	mykiss	hours	data sources

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri-tert- butylphenol	Fresh water 73.5 days, 20°C	<1 day(s)	Not readily

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Reaction mass of 2,6-di-tert- butylphenol and 2,4,6-tri-tert- butylphenol		-	high

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and vP	vB assessment
РВТ	: 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

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (phenol, 2,6-di-tert- butyl-)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (phenol, 2,6-di-tert- butyl-)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (phenol, 2,6-di-tert- butyl-). Marine pollutant (phenol, 2, 6-di-tert-butyl-)	Environmentally hazardous substance, liquid, n.o.s. (phenol, 2,6-di-tert-butyl-)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	Ш	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	This product is not regulated as a dangerous good when transported in sizes of $\leq 5 \ L \ or \leq 5 \ kg$, 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. Hazard identification number 90 Limited quantity $5 \ L$ Special provisions 274, 335, 601, 375 Tunnel code (E)	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. Special provisions 274, 601, 335	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. Emergency schedules (EmS) F-A, S-F Special provisions 274, 335, 969	
14.6 Special precautions for user		1	1	1
	f rovision : 2018.00.1			12/15

SECTION 14: Transport information

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.

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

	Notification and MAPP threshold	Safety report threshold
E2: 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 (integrated pollution prevention and control) - Air	:	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed

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

SECTION 15: Regulatory information

International lists

Australia inventory (AICS)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
China inventory (IECSC)	1	All components are listed or exempted.
EU Inventory (EINECS/ ELINCS/NLP)	:	All components are listed or exempted.
Japan inventory (ENCS)	1	Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined.
Korea inventory (KECI)	1	All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC)	1	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	÷	This product contains substances for which Chemical Safety Assessments are still
assessment		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 DRN = REACH Registration Number
	RRN = REACH Registration Number

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

Classi	fication Justification		
Eye Dam. 1, H318 Aquatic Chronic 2, H411	Calculation method Calculation method		
Full text of abbreviated H statements	 H318 Causes serious eye damage. 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. 		
Full text of classifications [CLP/GHS]	Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1 Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1 Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
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Emorgoncy contact numbers for local language support in Asia Pacific region			

Emergency contact numbers for local language support in Asia Pacific region

SECTION 16: Other information

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

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