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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: 1,6-Hexanediol diacrylate, 80% Product Code: H 5124 CAS No : 13048-33-4

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email info@ottokemi.com

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Skin irritation, (Category 2) Eve irritation, (Category 2) Skin sensitization, (Category 1) Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 2) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H315 H317 H319 H410 **Precautionary Statements** P261 P264 P273 P280 P302 + P352 P305 + P351 + P338

Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H317 Precautionary Statements P261 P302 + P352 Supplemental Hazard Statements 2.3 Other hazards

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H317: May cause an allergic skin reaction.
- H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Warning

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

Avoid breathing mist or vapors. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. none

Warning

May cause an allergic skin reaction.

Avoid breathing mist or vapors. IF ON SKIN: Wash with plenty of water. none

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances	
Synonyms	: HDODA
Formula	: C12H18O4
Molecular weight	: 226,27 g/mol
CAS-No.	: 13048-33-4
EC-No.	: 235-921-9

EC-No. : 235-921-9		
Component	Classification	Concentration
Hexamethylene diacrylate		
CAS-No. 13048-33-4 EC-No. 235-921-9	235-921-9	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures General advice Show this material safety data sheet to the doctor in attendance. If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

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Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8. 6.2 Environmental precautions Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®) Dispose of properly. Clean up affected area. 6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Light sensitive. Storage class Storage class (TRGS 510): 10: Combustible liquids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection required Body Protection protective clothing Respiratory protection required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type ABEK The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure

Do not let product enter drains.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid. gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH I) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information Relative vapor density

SECTION 10: Stability and reactivity

10.1 Reactivity
Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.
10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
Keep away from direct sunlight.
Strong heating.
10.5 Incompatible materials
Oxidizing agentsStrong bases, Strong oxidizing agents, Peroxides, Copper, Iron oxides
10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant).

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liquid colorless No data available Melting point/freezing point: 5 °C

107 °C at 0,3 hPa

No data available

No data available

113 °C - closed cup 235 °C at 1.013,25 hPa No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: 6,9 mPa.s at 20 °C 0,36 g/l at 20 °C - slightly soluble log Pow: 2,81 at 25 °C

< 0,01 hPa at 20 °C 1,01 g/cm3 at 25 °C - lit. No data available No data available

No data available

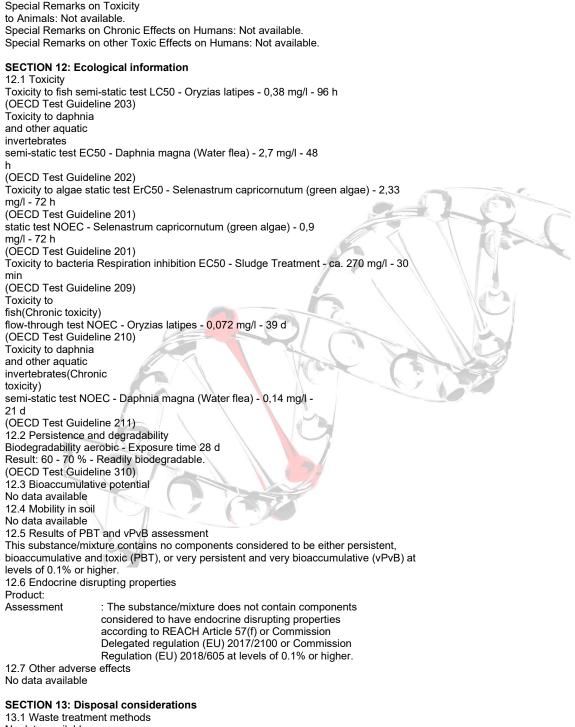
Not classified as explosive. none

7,81 - (Air = 1.0)

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No data available

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SECTION 14: Transport information

14.1 UN number				
ADR/RID: 3082		IMDG: 3082	IATA: 3082	
14.2 UN proper shi	pping name			
ADR/RID	: ENVIRONMENTALLY HAZARDOUS	SUBSTANCE, LIQUID, N.O.S. (Hexamethylene		
	diacrylate)			
IMDG	: ENVIRONMENTALLY HAZARDOUS	SUBSTANCE, LIQUID, N.O.S. (Hexamethylene		
	diacrylate)			
IATA		e, liquid, n.o.s. (Hexamethylene diacrylate)		
14.3 Transport haz	ard class(es)			
ADR/RID: 9		IMDG: 9	IATA: 9	
14.4 Packaging gro	up			
ADR/RID: III		IMDG: III	IATA: III	
14.5 Environmenta	hazards			
ADR/RID: yes		IMDG Marine pollutant: yes	IATA: yes	
14.6 Special preca				
Tunnel restriction c				
Further information				
	(ADR 2.2.9.1.10, IMDG code 2.10.3) for			
	gings containing inner packagings with D			
	Packages smaller than or equal to 5 kg /	L, not dangerous goods of		
Class 9				
	ulatory information			
	and environmental regulations/legislation	n specific for the		
substance or mixture				
This material safety data sheet complies with the requirements of Regulation (EC) No.				
1907/2006.				
Authorisations and/or restrictions on use				
National legislation				
Seveso III: Directive 2012/18/EU of the				
European Parliament and of the Council				
on the control of major-accident hazards				
involving dangerous substances.				
E1 ENVIRONMENTAL HAZARDS				
Other regulations Take note of Dir 94/33/EC on the protection of young people at work.				
15.2 Chemical Safety Assessment				
For this product a chemical safety assessment was not carried out				
	nemical salety assessment was not can			
SECTION 16: Othe	er Information			

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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