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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: 2-Ethyl hexyl acrylate, 99% Product Code: E 1575 CAS No : 103-11-7

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) Skin sensitization, (Category 1) Specific target organ toxicity single exposure, (Category 3), Respiratory system Long-term (chronic) aquatic hazard, (Category 3) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H315 H317 H335 H412 **Precautionary Statements** P261 P264 P271 P273 P280 P302 + P352 Supplemental Hazard Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H317 H412 **Precautionary Statements** P261 P280 P302 + P352 Supplemental Hazard Statements 2.3 Other hazards

H315: Causes skin irritation. H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Warning

Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

Avoid breathing mist or vapors. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water. none

Warning

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Avoid breathing mist or vapors. Wear protective gloves. 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. Lachrymator.

SECTION 3: Composition/information on ingredients

3.1 Substances	-
Synonyms	: (±)-Acrylic acid 2-ethylhexyl ester
Formula	: C11H20O2
Molecular weight	: 184,28 g/mol
CAS-No.	: 103-11-7
EC-No.	: 203-080-7

Component	Classification	Concentration
(2-ethylhexyl)acrylate		
CAS-No. 103-11-7	Skin Irrit. 2; Skin Sens. 1; STOT SE 3;	<= 100 %
EC-No. 203-080-7	Aquatic Chronic 3; H315, H317, H335,	
	H412	

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. 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 Carbon dioxide (CO2) Foam 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

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by

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keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Remove container from danger zone and cool with water. 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. Keep away from heat and sources of ignition. 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 Advice on protection against fire and explosion Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. 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 eve protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber

Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm

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Break through time: 480 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de. test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. **Body Protection** protective clothing Respiratory protection Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds 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. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state liquid b) Color colorless c) Odor No data available d) Melting Melting point/freezing point: -90 °C point/freezing point 215 - 219 °C - lit. e) Initial boiling point and boiling range f) Flammability (solid, No data available gas) g) Upper/lower Upper explosion limit: 6.4 %(V) flammability or Lower explosion limit: 0,8 %(V) explosive limits h) Flash point 79 °C - closed cup i) Autoianition 252 °C at 1.013 hPa temperature j) Decomposition No data available temperature k) pH No data available Viscosity, kinematic: No data available I) Viscosity Viscosity, dynamic: 1,75 mPa.s at 20 °C - OECD Test Guideline 1141,19 mPa.s at 40 °C - OECD Test Guideline 114 m) Water solubility 0,0096 g/l at 25 °C - Regulation (EC) No. 440/2008, Annex, A.6 log Pow: 4,64 at 25 °C - Potential bioaccumulation n) Partition coefficient: n-octanol/water o) Vapor pressure 0,24 hPa at 25 °C p) Density 0,885 q/cm3 at 25 °C - lit. 0.88 at 20 °C Relative density q) Relative vapor density r) Particle No data available characteristics s) Explosive properties Not classified as explosive. t) Oxidizing properties none 9.2 Other safety information Surface tension 68.2 mN/m at 20 °C - Regulation (EC) No. 440/2008, Annex, A.5

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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). Contains the following stabilizer(s): hydroguinone monomethyl ether (>=0,001 - <=0,11 %) 10.3 Possibility of hazardous reactions Violent reactions possible with: Amines peroxi compounds polymerisation initiators Strong oxidizing agents Reducing agents mercaptans azides Ether Ketones Aldehydes nitrates nitrites Strong bases Acid anhydrides acid halides mineral acids metallic salts 10.4 Conditions to avoid May polymerize on exposure to light. Unstable upon depletion of inhibitor. Heat. Light. Strong heating. 10.5 Incompatible materials No data available 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). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available. **SECTION 12: Ecological information** 12.1 Toxicity Toxicity to fish semi-static test NOEC - Oncorhynchus mykiss (rainbow trout) - 0,381 mg/l - 96 h semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 1,81 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 1,3 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test NOEC - Desmodesmus subspicatus (green algae) - 0,45 mg/l - 72 h

(OECD Test Guideline 201)

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Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

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	Desmodesmus subspicatus (green algae	e) - 1,71	
mg/l - 72 h (OECD Test Guid	eline 201)		
	a EC50 - Pseudomonas putida - > 10.00	0 mg/l - 30 min	
(DIN 38412)		3	
Remarks: (as an	emulsion)		
(IUCLID)			
12.2 Persistence	and degradability aerobic - Exposure time 15 d		
	- Readily biodegradable.		
	No. 440/2008, Annex, C.4-D)		
12.3 Bioaccumula	ative potential		
	Pimephales promelas (fathead minnow)((2-ethylhexyl)acrylate)	
Bioconcentration			
12.4 Mobility in so No data available			
	BT and vPvB assessment		
	ixture contains no components consider	ed to be either persistent,	
bioaccumulative a	and toxic (PBT), or very persistent and ve		
levels of 0.1% or			~
	srupting properties		
Product: Assessment	: The substance/mixture does not con	tain components	
Assessment	considered to have endocrine disrupti		
	according to REACH Article 57(f) or C		
	Delegated regulation (EU) 2017/2100		
	Regulation (EU) 2018/605 at levels of	0.1% or higher.	
12.7 Other advers	e environment must be avoided.		
Discharge into the	e environment must be avoided.		
SECTION 13: Dis	sposal considerations		
13.1 Waste treatn			
No data available			
SECTION 14: Tra	ansport information		
14.1 UN number			
ADR/RID: -		IMDG: -	IATA: 3334
14.2 UN proper sl			
ADR/RID	: Not dangerous goods : Not dangerous goods		
IATA	: Aviation regulated liquid, n.o.s. ((2-e	thylbexyl)acrylate)	
14.3 Transport ha			
ADR/RID: -		IMDG: -	IATA: 9
14.4 Packaging g	roup		
ADR/RID: -		IMDG: -	IATA: III
14.5 Environment ADR/RID: no	ai hazaros	IMDG Marine pollutant: no	IATA: no
14.6 Special prec	autions for user		17171.110
No data available			
Further information	n : No data available		
	aulatory information		
	gulatory information h and environmental regulations/legislati	on specific for the	
substance or mixt	s s		
This material safe	ty data sheet complies with the requirem	nents of Regulation (EC) No.	
1907/2006.			
Authorisations an Other regulations	d/or restrictions on use		
•		ale at work	
•	04/33/EC on the protection of young peop	ole at work.	

For this product a chemical safety assessment was not carried out

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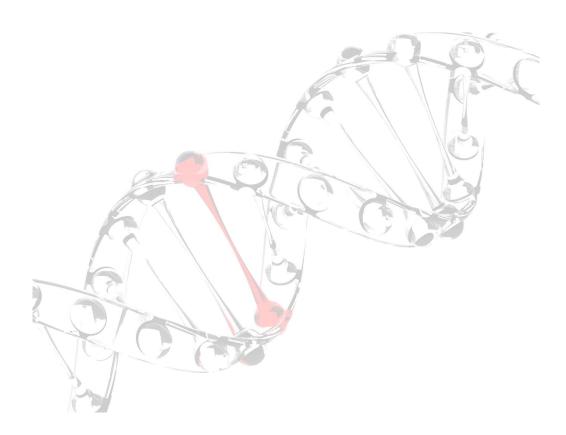
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SECTION 16: Other Information

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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