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### MATERIAL SAFETY DATA SHEET (MSDS)

### **SECTION 1: Product identifiers**

Product Name : 1,2-Dibromoethane, 98% Product Code: D 1455 CAS-No.: 106-93-4

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 Acute toxicity, (Category 3) Acute toxicity, (Category 3) H301: Toxic if swallowed. H331: Toxic if inhaled. Acute toxicity, (Category 3) H311: Toxic in contact with skin. Skin irritation, (Category 2) H315: Causes skin irritation. Eye irritation, (Category 2) H319: Causes serious eye irritation. Carcinogenicity, (Category 1B) H350: May cause cancer. Specific target organ toxicity -H335: May cause respiratory irritation. single exposure, (Category 3), Respiratory system Long-term (chronic) aquatic H411: Toxic to aquatic life with long lasting hazard, (Category 2) effects. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H350 May cause cancer. Toxic to aquatic life with long lasting effects. H411 **Precautionary Statements** P273 Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face P280 protection P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/ P302 + P352 + P312 doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable P304 + P340 + P311 for breathing. Call a POISON CENTER/ doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsina. Supplemental Hazard none Statements

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		Restricted to professional users.	
Reduced Labeling (	<= 125 ml)	·	
Pictogram	,		
Signal Word		Danger	
Hazard Statements		ů	
H350		May cause cancer.	
H301 + H311 + H33	31	Toxic if swallowed, in contact with skin or if inhaled.	
Precautionary State	ements	,	
P280		Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P301 + P310		F SWALLOWED: Immediately call a POISON CENTER/ doctor.	
P302 + P352 + P312		IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/	
		doctor if you feel unwell.	
P304 + P340 + P311		IF INHALED: Remove person to fresh air and keep comfortable	
		for breathing. Call a POISON CENTER/ doctor.	
Supplemental Haza	rd	none	
Statements			
2.3 Other hazards			
This substance/mix	ture contains no components	considered to be either persistent,	
		ent and very bioaccumulative (vPvB) at	
levels of 0.1% or high			
Ecological informati			
		nents considered to have endocrine	
disrupting properties	s according to REACH Article	e 57(f) or Commission Delegated regulation	
		2018/605 at levels of 0.1% or higher.	
Toxicological inform			
		ents considered to have endocrine	
		e 57(f) or Commission Delegated regulation	
		2018/605 at levels of 0.1% or higher.	
SECTION 3: Comp	osition/information on ing	redients	
3.1 Substances			
Synonyms	: EDB		
	Ethylene dibromide		
Formula	: C2H4Br2		
Molecular weight	: 187,86 g/mol		
CAS-No.	: 106-93-4		
EC-No.	: 203-444-5		
21			

Component	Classification	Concentration
1,2-dibromoethane		
CAS-No. 106-93-4 EC-No. 203-444-5	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; Carc. 1B; STOT SE 3; Aquatic Chronic 2; H301, H331, H311, H315, H319, H350, H335, H411	<= 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
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
In case of skin contact
In case of skin contact: Take off immediately.
In case of eye contact
After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

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lenses.

If swallowed If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as guickly as possible. 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 Hydrogen bromide gas Combustible. 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 keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Suppress (knock down) gases/vapors/mists with a water spray jet. 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 carefully 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 safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols. 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. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. May darken on storage Storage class Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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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 This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 10 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M) **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 sweet d) Melting Melting point/range: 8 - 11 °C - lit. point/freezing point e) Initial boiling point 131 - 132 °C - lit. and boiling range f) Flammability (solid, No data available gas) g) Upper/lower No data available flammability or explosive limits h) Flash point No data available i) Autoignition No data available temperature

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j) Decomposition temperaturek) pHl) 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 No data available No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available No data available No data available

72 hPa at 55,0 °C 2,18 g/mL at 25 °C - lit. No data available No data available

No data available

No data available none

**SECTION 10: Stability and reactivity** 

10.1 Reactivity No data available 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) 10.3 Possibility of hazardous reactions Violent reactions possible with: Alkali metals Aluminum strong alkalis Light metals magnesium alkali amides Strong oxidizing agents metals Ammonia liauid 10.4 Conditions to avoid no information available 10.5 Incompatible materials Strong oxidizing agents 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.

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### **SECTION 12: Ecological information**

12.1 Toxicity Toxicity to fish static test LC50 - Oncorhynchus m		
Toxicity to fish static test I C50 - Oncorhynchus m		
	iykiss (rainbow trout) - 1,13 mg/l	
- 96 h		
(OECD Test Guideline 203)		
Toxicity to daphnia		
and other aquatic		
invertebrates		
static test EC50 - Daphnia magna (Water flea) - 1	1,61 mg/l - 48 h	
(OECD Test Guideline 202)	-	
Toxicity to algae static test ErC50 - Pseudokirchn	eriella subcapitata - 25,94 mg/l - 72	
h		
(OECD Test Guideline 201)		
Toxicity to bacteria static test EC50 - activated slu	udae - > 1.000 ma/l	
(OECD Test Guideline 209)	5 5	
Toxicity to		
fish(Chronic toxicity)		
flow-through test NOEC - Oryzias latipes - 5,81 m	ng/l - 28 d	
Remarks: (ECHA)	.g/1 20 d	
12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time 28 d		
Result: 4,2 % - Not readily biodegradable.		
(OECD Test Guideline 301D)		
12.3 Bioaccumulative potential		
No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB assessment		
This substance/mixture contains no components of	considered to be either persistent	
bioaccumulative and toxic (PBT), or very persiste	nt and very bioaccumulative (vPvB) at	
biodobalitative and toxic (1 b1), or very persister		
levels of 0.1% or higher		
levels of 0.1% or higher.		and the second sec
12.6 Endocrine disrupting properties	1 PC - C	
12.6 Endocrine disrupting properties Product:	a not contain components	
12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does		
12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does considered to have endocrine	e disrupting properties	
12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does considered to have endocrine according to REACH Article 5	e disrup <mark>ti</mark> ng properties 57(f) or C <mark>o</mark> mmission	
12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does considered to have endocrine according to REACH Article 5 Delegated regulation (EU) 20	e disrup <mark>t</mark> ing properties 57(f) or Commission 117/2100 or Commission	
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An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

Tunnel restriction code: (C/D)Further information: No data available

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation 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 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) 1,2-dibromoethane 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. H2 ACUTE TOXIC E2 ENVIRONMENTAL HAZARDS 33 Carcinogenic substances Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. 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

### 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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