OTTO CHEMIE PVT LTD

MATERIAL SAFETY DATA SHEET



3.Composition/information on ingredients

3.1Substances

Chemical name		CAS number	EC number	Concentration
3-Dimethylaminopropylamine	3-Dimethylaminopropylamine	109-55-7	none	100%

4.First-aid measures

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest. Half-upright position. Refer for medical attention.

In case of skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention .

In case of eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

If swallowed

Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer for medical attention .

4.2Most important symptoms/effects, acute and delayed

SYMPTOMS: Symptoms of exposure to this compound include strong local irritation of tissue, lacrimation. ACUTE/CHRONIC HAZARDS: Toxic. Causes strong irritation on contact. Lachrymator. Dangerous fire hazard. When heated to decomposition, emits toxic fumes

4.3Indication of immediate medical attention and special treatment needed, if necessary no data available

5.Fire-fighting measures 5.1Extinguishing media

Suitable extinguishing media

To fight fire, use alcohol foam, carbon dioxide, dry chemical.

5.2Specific hazards arising from the chemical

This compound is flammable.

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water. Personal protection: chemical protection suit including self-contained breathing apparatus. Do NOT let this chemical enter the environment.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Fireproof. Separated from strong oxidants, strong acids and food and feedstuffs. Well closed.

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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 EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties Physical state Colorless liquid Colour Colorless liquid Odour Ammoniacal odor 360\u00b0C(dec.)(lit.) Melting point/ freezing point Boiling point or initial boiling point and boiling 133\u00b0C(lit.) range Flammability Flammable. Gives off irritating or toxic fumes (or gases) in a fire. Lower and upper explosion limit / flammability no data available limit 32\u00b0C Flash point Auto-ignition temperature no data available Decomposition temperature no data available pН no data available Kinematic viscosity 1.1 cP Solubility In water:SOLUBLE Partition coefficient n-octanol/water (log value) -0.352 Vapour pressure 5 mm Hg (20 \u00b0C) Density and/or relative density 0.812g/mLat 25\u00b0C(lit.) Relative vapour density 3.6 (vs air) Particle characteristics no data available 10.Stability and reactivity 10.1Reactivity no data available 10.2Chemical stability Stable under recommended storage conditions. 10.3Possibility of hazardous reactions FLAMMABLE, MODERATE FIRE RISK.DIMETHYLAMINOPROPYLAMINE neutralizes acids in exothermic reactions to form salts plus water. May be incompatible with isocyanates, halogenated organics, peroxides, phenols (acidic), epoxides, anhydrides, and acid halides. Flammable gaseous hydrogen may be generated in combination with strong reducing agents, such as hydrides. 10.4Conditions to avoid no data available 10.5Incompatible materials Ignites on contact with cellulose nitrate of high surface area. 10.6Hazardous decomposition products When heated to decomposition it emits toxic fumes of nitroxides. 11.Toxicological information Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available 12. Ecological information 12.1Toxicity Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

IN RELATION TO PURIFICATION OF WASTEW BIOLOGICAL OXIDIZABILITY (BO) WAS DETER DESCRIBED THROUGH USE OF ACTIVATED S CONTENT OF NH3-N WAS OBSERVED WHICH WIDE PH INTERVAL IS RELATED TO CONCN	2LANTS & OIL REFINERIES CONTAIN N,N-DIMI /ATER CONTAINING THIS COMPD, CONCN SC RMINED AS RATIO BOD20/COD. BIOLOGICAL SLUDGE IN AERATION LAGOONS. DURING BI I SALSO USED IN STABILIZATION OF PH. BIO IN ORIGINAL WASTEWATER. MAX CONTENTS IS WAS 800 MG/L (COD 2.14 G O2/L); AFTER B	DLN WERE OBTAINED IN LAB. TREATMENT SCHEME IS ODEGRADATION, INCR IN DLOGICAL OXIDIZABILITY OVER NOT AFFECTING BIOLOGICAL	
13.Disposal considerations			
13.1Disposal methods			
Product			
	licensed chemical destruction plant or by controll feed or seed by storage or disposal. Do not disch		
Contaminated packaging	leed of seed by storage of disposal. Do not disc	large to sewer systems.	
	d offered for recycling or reconditioning. Alternativ	vely, the packaging can be	
	s and then be disposed of in a sanitary landfill. Co		
scrubbing is possible for combustible packaging	materials.		
14.Transport information			
14.1UN Number ADR/RID: UN2734	IMDG: UN2734	IATA: UN2734	
14.2UN Proper Shipping Name	IMDG. UNZ734	IATA. UN2734	
ADR/RID: AMINES, LIQUID, CORROSIVE, FLAI	MABLE N.O.S. or POLYAMINES LIQUID COL	RROSIVE ELAMMABLE NOS	
	ABLE, N.O.S. or POLYAMINES, LIQUID, CORRO		
IATA: AMINES, LIQUID, CORROSIVE, FLAMMA			
14.3Transport hazard class(es)			
ADR/RID: 8	IMDG: 8	IATA: 8	
14.4Packing group, if applicable		a faith and a second	
ADR/RID: II	IMDG: II	IATA: II	
14.5Environmental hazards ADR/RID: no	IMDG: no	IATA: no	
14.6Special precautions for user	INDG. NO	IATA. 110	
no data available			
14.7Transport in bulk according to Annex II of M/	ARPOL 73/78 and the IBC Code		
no data available			
15.Regulatory information			
15.1Safety, health and environmental regulations			
Chemical name	Common names and synonyms	CAS number	EC number
3-Dimethylaminopropylamine	3-Dimethylaminopropylamine	109-55-7	none
European Inventory of Existing Commercial Cher	mical Substances (EINECS)		Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSC	CA) Inventory		Listed.
China Catalog of Hazardous chemicals 2015			Listed.
New Zealand Inventory of Chemicals (NZIoC) Philippines Inventory of Chemicals and Chemica	Substances (PICCS)		Listed. Listed.
Vietnam National Chemical Inventory	i Substances (PICCS)		
Chinese Chemical Inventory	L Substansas (China JECSC)		Listed.
Chinese Chemical Inventory of Existing Chemica			Listed.

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.