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#### MATERIAL SAFETY DATA SHEET (MSDS)

#### **SECTION 1. Product identifiers**

Product name: Dimethyloctylamine, 98% Product Code: D 2060 CAS No: 7378-99-6

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 Classification according to Regulation (EC) No 12 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 2), H330 Skin corrosion (Sub-category 1B), H314 Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317 Reproductive toxicity (Category 1B), H360FD Short-term (acute) aquatic hazard (Category 1), H Long-term (chronic) aquatic hazard (Category 1), For the full text of the H-Statements mentioned in 2.2 Label elements Labelling according Regulation (EC) No 1272/200	H400 H410 In this Section, see Section 16.
Pictogram Signal Ward	Danger
Signal Word Hazard statement(s)	Danger
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	very toxic to aquatic life with long lasting chects.
P202	Do not handle until all safety precautions have been read and
	understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
. 200	protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable
	for breathing. Immediately 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
	rinsing.
Supplemental Hazard	none
Statements	
Reduced Labeling (<= 125 ml)	
Pictogram	

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P305 + P351 + P338	for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue
Our set of the second	rinsing.
Supplemental Hazard Statements	none
2.3 Other hazards	
	ate considered to be either persistent
This substance/mixture contains no componer	
bioaccumulative and toxic (PBT), or very persi	stent and very bloaccumulative (VPVB) at

levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

3.1 Substances	
Synonyms	: DMOA
	1-(Dimethylamino)octane
	N-Octyldimethylamine
Formula	: C10H23N
Molecular weight	: 157,30 g/mol
CAS-No.	: 7378-99-6
EC-No.	: 230-939-3

Component	Classification	Concentration
Dimethyl-n-octylamine		
CAS-No. 7378-99-6 EC-No. 230-939-3	Acute Tox. 3; Acute Tox. 2; Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H301, H330, H314, H318, H317, H360FD, H400, H410 M-Factor - Aquatic Acute: 1	<= 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 all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.
Remove contact lenses.
If swallowed

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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 quickly as possible. Do not attempt to neutralise.

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 Nitrogen oxides (NOx) 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 keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information Remove container from danger zone and cool with water. 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. 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 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.

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. Keep in a well-ventilated place. Keep locked up or in an area accessible only

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to gualified or authorized persons. Storage class Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials 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). Tightly fitting safety goggles 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: butyl-rubber Minimum laver thickness: 0.7 mm Break through time: 480 min Material tested:Butoject® (KCL 898) 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 EN374 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: 30 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 clear, liquid b) Color colorless c) Odor No data available d) Melting Melting point/range: -57 °C - lit. point/freezing point e) Initial boiling point 195 °C - lit. and boiling range f) Flammability (solid, No data available gas) g) Úpper/lower No data available flammability or

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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 Surface tension

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 Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines! Violent reactions possible with: Strong oxidizing agents Strong acids 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials Copper, copper compounds 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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 $69\ ^\circ\text{C}$  - closed cup - Regulation (EC) No. 440/2008, Annex, A.9 No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available 297,4 g/l at 20 °C - OECD Test Guideline 105- partly soluble log Pow: 2,23 at 21 °C - OECD Test Guideline 107 -Bioaccumulation is not expected. 0,88 hPa at 20 °C - OECD Test Guideline 104 0,765 g/mL at 25 °C - lit. 0,76 at 20 °C - OECD Test Guideline 109 5,43 - (Air = 1.0)

No data available

No data available

67,4 mN/m at 20,4 °C - OECD Test Guideline 115 5,43 - (Air = 1.0)

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

SECTION 12: Ecological information		
12.1 Toxicity		
Toxicity to fish static test LC50 - Oncorhynchus n	nykiss (rainbow trout) - 5,7 mg/l -	
96 h		
(OECD Test Guideline 203)		
Toxicity to daphnia		
and other aquatic		
invertebrates		
static test EC50 - Daphnia magna (Water flea) - 9	9 28 ma/l - 48 h	
(OECD Test Guideline 202)	5,20 mg/r 40 m	
Toxicity to algae static test ErC50 - Pseudokirchr	periella subcanitata - 0.26 mg/l - 72 h	
(OECD Test Guideline 201)	ienena subcapitata - 0,20 mg/i - 72 m	
Toxicity to bacteria static test EC50 - activated sl	udae 20.0 mal/ 2 h	
	udge - 30,9 mg/i - 3 n	
(OECD Test Guideline 209)		
12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time 29 d		
Result: 98 % - Readily biodegradable.		
(OECD Test Guideline 301B)		
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	considered to be either persistent,	
bioaccumulative and toxic (PBT), or very persiste	ent and very bioaccumulative (vPvB) at	
levels of 0.1% or higher.		
12.6 Endocrine disrupting properties		
Product:		
Assessment : The substance/mixture doe	s not contain components	
considered to have endocrin	e disrupting properties	
considered to have endocrin		
according to REACH Article	57(f) or Commission	
according to REACH Article Delegated regulation (EU) 20	57(f) or Commission 017/2100 or Commission	
according to REACH Article Delegated regulation (EU) 20 Regulation (EU) 2018/605 at	57(f) or Commission 017/2100 or Commission	
according to REACH Article Delegated regulation (EU) 20 Regulation (EU) 2018/605 at 12.7 Other adverse effects	57(f) or Commission 017/2100 or Commission t levels of 0.1% or higher.	
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according to REACH Article Delegated regulation (EU) 20 Regulation (EU) 2018/605 at 12.7 Other adverse effects Discharge into the environment must be avoided	57(f) or Commission 017/2100 or Commission t levels of 0.1% or higher.	
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according to REACH Article Delegated regulation (EU) 20 Regulation (EU) 2018/605 at 12.7 Other adverse effects Discharge into the environment must be avoided. <b>SECTION 13: Disposal considerations</b> 13.1 Waste treatment methods No data available <b>SECTION 14: Transport information</b> 14.1 UN number ADR/RID: 2927 14.2 UN proper shipping name ADR/RID : TOXIC LIQUID, CORROSIN	57(f) or Commission 017/2100 or Commission t levels of 0.1% or higher. IMDG: 2927 VE, ORGANIC, N.O.S. (Dimethyl-n-octyla	amine)
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according to REACH Article Delegated regulation (EU) 20 Regulation (EU) 2018/605 at 12.7 Other adverse effects Discharge into the environment must be avoided SECTION 13: Disposal considerations 13.1 Waste treatment methods No data available SECTION 14: Transport information 14.1 UN number ADR/RID 2927 14.2 UN proper shipping name ADR/RID : TOXIC LIQUID, CORROSIN IMDG : TOXIC LIQUID, CORROSIN IMDG : TOXIC LIQUID, CORROSIN IMTA : Toxic liquid, corrosive, organ 14.3 Transport hazard class(es) ADR/RID: 6.1 (8)	57(f) or Commission 017/2100 or Commission t levels of 0.1% or higher. IMDG: 2927 VE, ORGANIC, N.O.S. (Dimethyl-n-octyla VE, ORGANIC, N.O.S. (Dimethyl-n-octyla	amine)
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substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No.

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1907/2006. 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 E1 ENVIRONMENTAL HAZARDS 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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