## otto chemie pvt ltd

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 : info@ottokemi.com Web : www.ottokemi.com

## MATERIAL SAFETY DATA SHEET (MSDS)

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

Product name: Ethylenediaminetetraacetic acid tetra sodium salt, 98% Product Code: E 1515 CAS No: 64-02-8

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 4) Acute toxicity, (Category 4) Serious eye damage, (Category 1) Specific target organ toxicity repeated exposure, (Category 2), **Respiratory Tract** 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H302 + H332 H318 H373 **Precautionary Statements** P260 P280 P301 + P312 P304 + P340 + P312 P305 + P351 + P338 P314 Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H318 **Precautionary Statements** P280

P305 + P351 + P338

H302: Harmful if swallowed. H332: Harmful if inhaled. H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

Danger

Harmful if swallowed or if inhaled. Causes serious eve damage. May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

Do not breathe dust.

Wear eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell.

Danger

Causes serious eye damage.

Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

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rinsing. r Supplemental Hazard Statements 2.3 Other hazards	none			
This substance/mixture contains no components co bioaccumulative and toxic (PBT), or very persistent 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 component disrupting properties according to REACH Article 57 (EU) 2017/2100 or Commission Regulation (EU) 20	7(f) or Commission Delegated regulation			
SECTION 3: Composition/information on ingredi 3.1 Substances	ients			
Synonyms : Tetrasodium ethylenediamine EDTAtetrasodium salt Edathamil	tetraacetatedihydrate			
Formula : C10H12N2Na4O8 · 2H2O Molecular weight : 416,20 g/mol				
CAS-No. : 10378-23-1 EC-No. : 200-573-9				

Component	Classification	Concentration
Ethylenediaminetetraacetic acid tetrasodium salt dihydrate		
CAS-No. 10378-23-1 EC-No. 200-573-9	Acute Tox. 4; Eye Dam. 1; STOT RE 2; H302, H332, H318, H373	<= 100 %

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

## SECTION 4: First aid measures

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. 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. Consult a physician. In case of eye contact
After eye contact: rinse out with plenty of water. Immediately 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

Unsuitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

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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) Sodium oxides 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: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. 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. Hygiene measures Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Storage class Storage class (TRGS 510): 11: Combustible Solids 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact

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Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L 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: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection protective clothing Respiratory protection required when dusts 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 P2 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 crystalline b) Color white c) Odor No data available d) Melting No data available point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, No data available gas) g) Úpper/lower No data available flammability or explosive limits h) Flash point Not applicable i) Autoignition No data available temperature j) Decomposition No data available temperature k) pH No data available I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available m) Water solubility No data available n) Partition coefficient: No data available n-octanol/water o) Vapor pressure No data available p) Density No data available Relative densitv No data available q) Relative vapor No data available density r) Particle No data available *c*haracteristics s) Explosive properties No data available

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none

t) Oxidizing properties 9.2 Other safety information No data available

**SECTION 10: Stability and reactivity** 10.1 Reactivity The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. 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: Oxidizing agents Aluminum Nickel Zinc 10.4 Conditions to avoid no information available 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 static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203) Remarks: The value is given in analogy to the following substances: Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 114 mg/l - 48 h (OECD Test Guideline 202) Remarks: The value is given in analogy to the following substances: Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt Toxicity to algae static test EC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201) Remarks: The value is given in analogy to the following substances: Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt Toxicity to bacteria static test EC10 - activated sludge - > 500 mg/l - 30 min (OECD Test Guideline 209) Remarks: The value is given in analogy to the following substances: Ethylenedinitrilotetraacetic acid disodium saltThe value is given in analogy to the following substances: Sodium feredetate Toxicity to DISCLAIMER

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fish(Chronic toxicity) flow-through test NOEC - Danio rerio (zebra fish) 35 d (OECD Test Guideline 210)		
35 d		
	- >= 35,1 mg/l -	
(OECD Test Guideline 210)		
Remarks: The value is given in analogy to the foll		
Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt T		
analogy to the following substances: Sodium calc	ium edetate hydrate	
Toxicity to daphnia		
and other aquatic		
invertebrates(Chronic		
toxicity)		
semi-static test NOEC - Daphnia magna (Water f	lea) - 25 mg/l - 21	
d		
Remarks: The value is given in analogy to the foll		
Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt T		
analogy to the following substances: Ethylenedini	itrilotetraacetic acid	
disodium salt		
12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time 28 d		
Result: 0 - 10 % - Not readily biodegradable.		
Remarks: The value is given in analogy to the foll	owing substances:	
Ethylenedinitrilotetraacetic acid,Tetrasodiumsalt		
12.3 Bioaccumulative potential		
Bioaccumulation Lepomis macrochirus - 28 d	sid totas dium	
at 21 °C - 0,08 mg/I(Ethylenediaminetetraacetic a	cid tetrasodium	
salt dihydrate)		
Bioconcentration factor (BCF): 1,8		
(OECD Test Guideline 305) Remarks: The value is given in analogy to the foll	awing substances	
Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt	owing substances.	
12.4 Mobility in soil		
No data available		and the second sec
12.5 Results of PBT and vPvB assessment		
	considered to be either persistent	
This substance/mixture contains no components		
This substance/mixture contains no components bioaccumulative and toxic (PBT) or very persiste		
bioaccumulative and toxic (PBT), or very persiste		
bioaccumulative and toxic (PBT), or very persiste levels of 0.1% or higher.		
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bioaccumulative and toxic (PBT), or very persiste levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product:	nt and very bioaccumulative (vPvB) at	
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IATA: no

# 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no 14.6 Special precautions for user No data available Further information Not classified as dangerous in the meaning of transport regulations.

### **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
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.

#### DISCLAIMER

Otto Chemie Pvt Ltd - products are only for laboratory use only. Not for drug, medicinal, household or any other use. No liability accepted for mishandling in use - please test before use

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