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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Diethyl oxalacetate sodium salt, 95% Product Code: D 1753 CAS No : 40876-98-0

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 <u>info@ottokemi.com</u>

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) H302: Harmful if swallowed. Skin irritation, (Category 2) H315: Causes skin irritation. Eye irritation, (Category 2) H319: Causes serious eye irritation. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Warning Hazard Statements Harmful if swallowed. H302 H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary Statements P264 Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. P270 Wear protective gloves/ eye protection/ face protection. P280 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel P301 + P312 unwell. IF ON SKIN: Wash with plenty of water. P302 + P352 IF IN EYES: Rinse cautiously with water for several minutes. P305 + P351 + P338 Remove contact lenses, if present and easy to do. Continue rinsina. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Warning Hazard Statements none **Precautionary Statements** none Supplemental Hazard none Statements 2.3 Other hazards 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.

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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.

SECTION 3: Composition/information on ingredients

3.1 Substances		
Synonyms	: Oxalacetic acid diethyl estersodium salt	
	Diethyl oxaloacetate	
	Diethyl oxalacetate	
	Diethyl oxosuccinatesodium salt	
	Sodium diethyl oxalacetate	
Formula	: C8H11NaO5	
Molecular weight	: 210,16 g/mol	
CAS-No.	40876-98-0	
EC-No.	: 255-122-9	

Component	Classification	Concentration
diethyl oxaloacetate, monosodium salt		
CAS-No. 40876-98-0	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2;	<= 100 %
EC-No. 255-122-9	H302, H315, H319	

1200

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

SECTION 4: First aid moasures

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.				
In case of eye contact				
After eye contact: rinse out with plenty of water. 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				
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				
Sodium oxides				
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.				

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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 For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Moisture sensitive. 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 Eve/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 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 Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, 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**

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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 b) Color c) Odor d) Melting point/freezing point e) Initial boiling point and boiling range f) Flammability (solid, gas) g) Upper/lower flammability or 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
No data available

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
No data available
10.4 Conditions to avoid no information available
10.5 Incompatible materials
Strong oxidizing agents, Acids

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powder No data available No data available 188 - 190 °C

No data available

No data available

No data available

No data available 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

No data available No data available No data available No data available

No data available

No data available No data available

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10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11: Toxicological information

	SECTION 11: Toxicological information 11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbi Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC E Other Toxic Effects on Humans: Hazardous in ca Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans Special Remarks on other Toxic Effects on Humans	it: 2000mg/kg FFECTS: Classified None. by NTP, None ase of skin contact (irritant), of inhalation i : Not available.	e. by OSHA, None. by NIOSH.		
	SECTION 12: Ecological information				
	12.1 Toxicity				
	No data available				
	12.2 Persistence and degradability				
	No data available 12.3 Bioaccumulative potential				
	No data available				
	12.4 Mobility in soil				
	No data available				
	12.5 Results of PBT and vPvB assessment	and the state has a labor to an indexed			
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.				
	12.6 Endocrine disrupting properties				
	Product:				
	Assessment : The substance/mixture doe considered to have endocrin		and the second sec		
	according to REACH Article				
	Delegated regulation (EU) 2	017/2100 or Commission			
	Regulation (EU) 2018/605 a	t levels of 0.1% or higher.			
	12.7 Other adverse effects				
	No data available				
	SECTION 13: Disposal considerations				
	13.1 Waste treatment methods				
	Product				
	See www.retrologistik.com for processes regarding the return of chemicals and				
	containers, or contact us there if you have furthe	r questions.			
	SECTION 14: Transport information				
	14.1 UN number				
	ADR/RID: -	IMDG: -	IATA: -		
	14.2 UN proper shipping name				
	ADR/RID : Not dangerous goods				
	IMDG : Not dangerous goods				
	IATA : Not dangerous goods 14.3 Transport hazard class(es)				
	ADR/RID: -	IMDG: -	IATA: -		
	14.4 Packaging group	-			
	ADR/RID: -	IMDG: -	IATA: -		
	14.5 Environmental hazards				
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
	14.6 Special precautions for user No data available				
	Further information				

Further information

Not classified as dangerous in the meaning of transport regulations.

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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. 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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