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: 4,4'-Diaminodiphenylsulphone, 98% Product Code: D 1385 CAS No: 80-08-0

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 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) H302: Harmful if swallowed. Reproductive toxicity, (Category H360F: May damage fertility. 1B) Specific target organ toxicity -H371: May cause damage to organs. single exposure, (Category 2), Blood Specific target organ toxicity repeated exposure, (Category 2), Blood, spleen, Liver Long-term (chronic) aquatic hazard, (Category 2) effects. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements Harmful if swallowed. H302 H360F May damage fertility. H371 H373 prolonged or repeated exposure. H411 **Precautionary Statements** P202 understood P260 Do not breathe dust. P264 Avoid release to the environment. P273 P301 + P312 unwell. P308 + P311 Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram Signal Word Danger Hazard Statements H360F May damage fertility.

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

H411: Toxic to aquatic life with long lasting

May cause damage to organs (Blood). May cause damage to organs (Blood, spleen, Liver) through Toxic to aquatic life with long lasting effects.

Do not handle until all safety precautions have been read and Wash skin thoroughly after handling. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel IF exposed or concerned: Call a POISON CENTER/ doctor.

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Precautionary Statements P202

Do not handle until all safety precautions have been read and understood.

Supplemental Hazard 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. 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

 Formula
 : C12H12N2O2S

 Molecular weight
 : 248,3 g/mol

 CAS-No.
 : 80-08-0

 EC-No.
 : 201-248-4

 Component
 Classification
 Concentration

 Dapsone
 Acute Tox. 4; Repr. 1B; STOT SE 2;
 <= 100 %</td>

 CAS-No. 80-08-0
 STOT RE 2; Aquatic Chronic 2; H302,
 <= 100 %</td>

 EC-No
 201-248-4
 STOT RE 2; Aquatic Chronic 2; H302,

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
Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
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. 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
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

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Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Combustible. Fire may cause evolution of: Sulfur oxides, nitrogen oxides, nitrous gases 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 carefully. 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 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. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature see product label. Storage class Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects 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,

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Internet: www.kcl.de). Full contact 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 P3 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 powder, finecrystalline b) Color white c) Odor No data available d) Melting Melting point/range: 175 - 177 °C point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, No data available gas) g) Upper/lower No data available flammability or explosive limits h) Flash point Not applicable i) Autoignition does not ignite 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 0.38 g/l at 37 °C n) Partition coefficient: No data available n-octanol/water No data available o) Vapor pressure p) Density ca.0,82 g/cm3 at 20 °C Relative density No data available q) Relative vapor No data available density

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r) Particle	No data available	
characteristics		
s) Explosive properties	No data available	
t) Oxidizing properties	none	
9.2 Other safety information		
Bulk density	250 - 350 kg/m3	
Durk density	200 - 000 kg/mo	
SECTION 10: Stability and reactivity		
10.1 Reactivity		
	ances and mixtures: in	
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 co	nditions (room tomporaturo)	
10.3 Possibility of hazardous reactions		
Violent reactions possible with:		
Strong oxidizing agents		
10.4 Conditions to avoid		
Light. no information available		
10.5 Incompatible materials No data available		
10.6 Hazardous decomposition products		
In the event of fire: see section 5		
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 contact. Ex	resented Tavinity to Animala	
Crol L DEO Dati 1500 mg/(g) Darmal L DEO Dabhiti 2000mg/	le contact. Toxicity to Animais.	
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		
Special Remarks of other Toxic Effects of Humans. Not av		
SECTION 12: Ecological information		
12.1 Toxicity	· ~ /	
Toxicity to fish static test LC50 - Cyprinus carpio (Carp) - >	100 mg/l - 96 h	
(OECD Test Guideline 203)		
Toxicity to algae static test ErC50 - Pseudokirchneriella sub	canitata (green algae) - ca	
2,7 mg/l - 72 h	dupitata (green algae) - ea.	
(OECD Test Guideline 201)		
Toxicity to bacteria		
Toxicity to daphnia		
and other aquatic		
invertebrates(Chronic		
toxicity)		
semi-static test NOEC - Daphnia magna (Water flea) - 0,46	ma/l -	
21 d		
(OECD Test Guideline 211)		
12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time 28 d		
Result: 0 - 1 % - 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		

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	d toxic (PBT), or very persister gher. upting properties : The substance/mixture does considered to have endocrine according to REACH Article 5 Delegated regulation (EU) 20 Regulation (EU) 2018/605 at I	disrupting properties 7(f) or Commission 17/2100 or Commission		
SECTION 13: Dispo 13.1 Waste treatme No data available	osal considerations nt methods	J ^a		
SECTION 14: Tran	an art information			
SECTION 14: Trans 14.1 UN number	sport mormation			
ADR/RID: 3077		IMDG: 3077	IATA: 3077	
14.2 UN proper ship				
		RDOUS SUBSTANCE, SOLID, N.O.S. (Dapsone)	
IATA 14.3 Transport haza		substance, solid, n.o.s. (Dapsone)		
ADR/RID: 9		IMDG: 9	IATA: 9	
14.4 Packaging grou	ap qu			
ADR/RID: III		IMDG: III	IATA: III	
14.5 Environmental	hazards			
ADR/RID: yes		IMDG Marine pollutant: yes	IATA: yes	
14.6 Special precau Tunnel restriction co			A A A A A A A A A A A A A A A A A A A	
Further information	ode : (-)			
	(ADR 2.2.9.1.10, IMDG code 2	2.10.3) for single packagings and		
combination packagings containing inner packagings with Dangerous Goods > 5L for liquids				
or > 5kg for solids.Packages smaller than or equal to 5 kg \prime L , not dangerous goods of				
Class 9				
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.				
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				
E2 ENVIRONMENT	AL 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				
	nemical safety assessment wa	s 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

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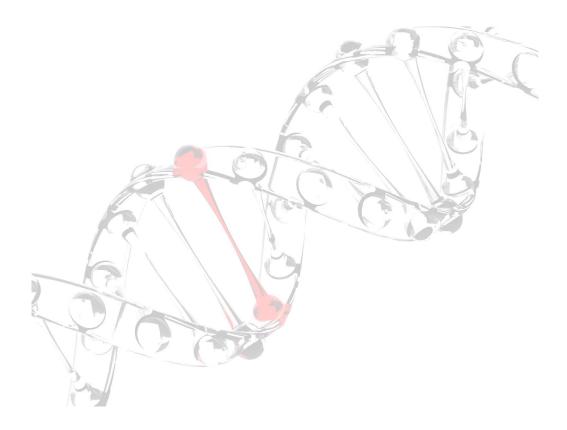
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precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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