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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name : Anthraquinone, GR 99%+ Product Code : A 2487 CAS No: 84-65-1

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 No 603, 6th Floor, Tardeo AC Market, 87, Tardeo Road, Tardeo, Mumbai, Maharashtra 400034, India (BHARAT)

1.4. Emergency telephone number Phone no. : + 91 98200 41841 (10 : 00 am - 06 : 00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin sensitization (Category 1), H317 Carcinogenicity (Category 1B), H350 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard statement(s) May cause an allergic skin reaction. H317 H350 May cause cancer. Precautionary statement(s) P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/ protective clothing/ eye protection/ face

none

protection. P302 + P352 P308 + P313 Supplemental Hazard

Statements Restricted to professional users. 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.

SECTION 3: Composition/information on ingredients

3.1 Substances	
Formula	: C14H8O2
Molecular weight	: 208,21 g/mol
CAS-No.	: 84-65-1
EC-No	: 201-549-0

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IF ON SKIN: Wash with plenty of water.

IF exposed or concerned: Get medical advice/ attention.

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Component	Classification	Concentration
z anthraquinone		
CAS-No. 84-65-1 EC-No. 201-549-0	Skin Sens. 1; Carc. 1B; H317, H350	<= 100 %

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

Carbon oxides

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

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 generation and inhalation of dusts in all circumstances. 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.

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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 gualified or authorized persons. 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, 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 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: 0,11 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.

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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 Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. 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: Strong oxidizing agents 10.4 Conditions to avoid Strong heating. 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products

In the event of fire: see section 5

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powder yellow odorless Melting point/range: 284 - 286 °C - lit.

379 - 381 °C - lit.

May form combustible dust concentrations in air.

No data available

ca.250 °C - closed cup >= 600 °C at 1.000 hPa - Regulation (EC) No. 440/2008, Annex, A.16

>= 600 °C No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available 0,074 g/l at 20 °C log Pow: 3,4 at 30 °C - - (ECHA), Bioaccumulation is not expected.

0,0022 hPa at 20 °C - OECD Test Guideline 104 ca.1,26 g/cm3 at 20 °C - OECD Test Guideline 109 No data available No data available

No data available

No data available none

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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 other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test EC50 - Daphnia magna (Water flea) - > 0,054 mg/l - 21 d (OECD Test Guideline 211) 12.2 Persistence and degradability Biodegradability anaerobic Chemical oxygen demand - Exposure time 28 d Result: 62 % - Readily biodegradable. (Regulation (EC) No. 440/2008, Annex, C.4-E) Remarks: The 10 day time window criterion is not fulfilled. Chemical Oxygen Demand (COD) ca. 2.300 mg/l 12.3 Bioaccumulative potential Bioaccumulation - 17 d - 0,0071 mg/l(anthraquinone) Bioconcentration factor (BCF): 140 (US-EPA) 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 persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission

12.7 Other adverse effects No data available

SECTION 13: Disposal considerations 13.1 Waste treatment methods

No data available

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Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 14: Transport information

	insport information			
14.1 UN number				
ADR/RID: -		IMDG: -	IATA: -	
14.2 UN proper sh				
ADR/RID:		jerous goods		
IMDG:		jerous goods		
IATA:		Not dangerous goods		
14.3 Transport ha	zard class(es)			
ADR/RID: -		IMDG: -	IATA: -	
14.4 Packaging gr	roup			
ADR/RID: -		IMDG: -	IATA: -	
14.5 Environment	al hazards			
ADR/RID: no		IMDG Marine pollutant: no	IATA: no	
14.6 Special preca	autions for user			
No data available				
Further informatio	n			
Not classified as c	angerous in the mea	ning of transport regulations.		
SECTION 15: Reg	gulatory information	1		
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				
REACH - Restricti	ions on the manufactu	ure,		
placing on the market and use of certain				
dangerous substances, mixtures and articles				
(Annex XVII)				
anthraquinone				
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: Oth	ner 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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