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MATERIAL SAFETY DATA SHEET (MSDS)

H350: May cause cancer.

H361d: Suspected of damaging the unborn

SECTION 1: Product identifiers

Product Name : Congo red, papers Product Code : C 2467 CAS No: 573-58-0

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 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 Carcinogenicity, (Category 1B) Reproductive toxicity, (Category

| | child. | | |
|---|---|--|--|
| 2) | | | |
| 2.2 Label elements | | | |
| Labelling according Regulation (EC) No 1272/200 | 18 | | |
| Pictogram | | | |
| Signal Word | Danger | | |
| Hazard Statements | Durigor | | |
| H350 | May cause cancer. | | |
| H361d | Suspected of damaging the unborn child. | | |
| Precautionary Statements | ouspected of damaging the unborn child. | | |
| P201 | Obtain special instructions before use. | | |
| P202 | | | |
| P202 | Do not handle until all safety precautions have been read and understood. | | |
| | | | |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face | | |
| protection. | | | |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. | | |
| P405 | Store locked up. | | |
| P501 | Dispose of contents/ container to an approved waste disposal | | |
| | plant. | | |
| Supplemental Hazard | | | |
| Statements | none | | |
| 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. | | | |
| 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) | | | |
| | | | |

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SECTION 3: Composition/information on ingredients

| 3.1 Substances | |
|------------------|-------------------|
| Synonyms | : Direct Red 28 |
| | Congo Red 4B |
| | Cosmos Red |
| | Cotton Red B |
| | Direct Red R |
| | Direct Red Y |
| | Cotton Red C |
| Formula | : C32H22N6Na2O6S2 |
| Molecular weight | : 696,66 g/mol |
| CAS-No. | : 573-58-0 |
| EC-No. | : 209-358-4 |
| | |

| Component | | Classification | Concentration | |
|--|-----------------------|--------------------------------|---------------|--|
| C.I. Direct Red 28 Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH) | | | | |
| CAS-No. EC-No. | 573-58-0 209-358-4 | Carc. 1B; Repr. 2; H350, H361d | <= 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 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 Nitrogen oxides (NOx) Sulfur oxides 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

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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 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. **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. 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 eve 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, 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

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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 solid b) Color red brown c) Odor characteristic d) Melting Melting point/ range: > 360 °C - lit. 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 No data available i) Autoignition No data available temperature j) Decomposition No data available temperature ca.6,7 at 10 g/l at 20 °C k) pH I) Viscosity Viscosity, kinematic: No data available Viscosity, dynamic: No data available m) Water solubility 1 g/l - clear n) Partition coefficient: log Pow: 2,63 - Bioaccumulation is not expected., (Lit.) n-octanol/water o) Vapor pressure < 0.01 hPa p) Density No data available Relative density No data available g) Relative vapor density r) Particle No data available characteristics s) Explosive properties No data available t) Oxidizing properties none 9.2 Other safety information No data available

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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: Strong oxidizing agents Strong acids 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 daphnia and other aquatic invertebrates static test LC50 - Daphnia magna (Water flea) - 4 mg/l - 48 h Remarks: (ECOTOX Database) 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 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 Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

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SECTION 14: Transport information

| SECTION 14. Transport line | mation | | | | |
|--|---|-------------------|--|--|--|
| 14.1 UN number | | | | | |
| ADR/RID: - | IMDG: - | IATA: - | | | |
| 14.2 UN proper shipping nam | e | | | | |
| ADR/RID: | Not dangerous goods | | | | |
| IMDG: | Not dangerous goods | | | | |
| IATA: | Not dangerous goods | | | | |
| 14.3 Transport hazard class(e | | | | | |
| ADR/RID: - | IMDG: - | IATA: - | | | |
| 14.4 Packaging group | IMDO | | | | |
| | INDO. | 14 7 4. | | | |
| ADR/RID: - | IMDG: - | IATA: - | | | |
| 14.5 Environmental hazards | | | | | |
| ADR/RID: no | IMDG Marine pollutant: no | IATA: no | | | |
| 14.6 Special precautions for u | Jser | | | | |
| No data available | | | | | |
| Further information | | | | | |
| Not classified as dangerous in | n the meaning of transport regulations. | | | | |
| i i i i i i i i i i i i i i i i i i i | i die meaning et danopertregalationer | | | | |
| SECTION 15: Regulatory inf | formation | | | | |
| | onmental regulations/legislation specific | fortha | | | |
| | onmental regulations/legislation specific | lor the | | | |
| substance or mixture | | | | | |
| | et complies with the requirements of Rec | gulation (EC) No. | | | |
| 1907/2006. | | | | | |
| Authorisations and/or restriction | ons on use | | | | |
| REACH - Restrictions on the | manufacture, | | | | |
| placing on the market and use | e of certain | | | | |
| dangerous substances, mixtu | | | | | |
| (Annex XVII) | | | | | |
| | | | | | |
| : C.I. Direct Red 28 REACH - Restrictions on the manufacture, : C.I. Direct Red 28 | | | | | |
| | | | | | |
| placing on the market and use of certain | | | | | |
| dangerous substances, mixtures and articles | | | | | |
| (Annex XVII) | | | | | |
| REACH - Candidate List of Substances of Very | | | | | |
| High Concern for Authorisation (Article 59). | | | | | |
| : C.I. Direct Red 28 | | | | | |
| 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. | | | | | |
| 33 Carcinogenic substances | | | | | |
| 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 Assess | | | | | |
| | | | | | |
| 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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