OTTO CHEMIE PVT LTD

201, 51-53 Maroo Bhavan, Kalbadevi, Mumbai - 400002, India. Tel : + 91 22 2207 0099 / 6638 2599 Email : info@ottokemi.com, Web : www.ottokemi.com -----ISO 9001: 2015----_____

MATERIAL SAFETY DATA SHEET

| 1.Identification 1.1GHS Product identifier 2-Phenoxyethanol, 99% Code P 1578 | | | | | | | | |
|--|--|--|---------------|------------------|--|--|--|--|
| 2.Hazard identification 2.1Classification of the subs Acute toxicity - Oral, Catego Eye irritation, Category 2 2.2GHS label elements, incl | stance or mixture ry 4 uding precautionary state | ments | | | | | | |
| Pictogram(s) | | | 6 | | | | | |
| Signal word Hazard statement(s) | Warning H302 Harmful if swallowe H319 Causes serious ey | ed e irritation | | | | | | |
| Precautionary statement(s) | | AT I | - C. | | | | | |
| Prevention | P264 Wash <mark>. thorou</mark> ghly after handling. | | | | | | | |
| | P270 Do not eat, drink or | r smoke when | using this pr | oduct. | | | | |
| | P280 Wear protective glo | P280 Wear protective gloves/protective clothing/eye | | | | | | |
| | protection/face protection | n. 🦳 🕅 🐪 | | | | | | |
| Response | P301+P312 IF SWALLO | WED: Call a F | POISON | A P C L A | | | | |
| | CENTER/doctor/\u2026if | ENTER/doctor/\u2026if you feel unwell. | | | | | | |
| / | P330 Rinse mouth. | 13 | | | | | | |
| 1 | P305+P351+P338 IF IN | P305+P351+P338 IF IN EYES: Rinse cautiously with water for | | | | | | |
| | several minutes. Remove contact lenses, if present and easy to | | | | | | | |
| | do. Continue rinsing. | | | | | | | |
| 7 7 | P337+P313 If eye irritation | on per <mark>sist</mark> s: Ge | et medical ad | lvice/attention. | | | | |
| Storage | none | | | | | | | |
| Disposal | P501 Dispose of contents | s/container to | | | | | | |
| 2.30ther hazards which do i | not result in classification | S | | | | | | |
| none | | | | | | | | |
| 3 Composition/information of | n ingredients | | | | | | | |
| 3 1Substances | Thigreelents | | | | | | | |
| Chemical name Commor | names and synonyms | CAS number | FC number | Concentration | | | | |
| 2-phenoxyethanol 2-pheno | xvethanol | 122-99-6 | none | 100% | | | | |
| | , | | | 1] | | | | |
| 4.First-aid measures | | | | | | | | |
| 4.1Description of necessary | first-aid measures | | | | | | | |
| General advice | | | | | | | | |

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Fresh air, rest.

In case of skin contact

Rinse and then wash skin with water and soap.

In case of eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention. If swallowed

Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention .

4.2Most important symptoms/effects, acute and delayed

May cause moderate eye irritation and moderate corneal injury. Excessive exposure may cause skin irritation and hemolysis. (UŚCG, 1999)

4.3Indication of immediate medical attention and special treatment needed, if necessary /SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if

necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/

5.Fire-fighting measures
5.1Extinguishing media
Suitable extinguishing media
To fight fire, use CO2, dry chemical.
5.2Specific hazards arising from the chemical
This chemical is combustible.
5.3Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.
6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Personal protection: filter respirator for organic gases and vapours adapted to the airborne concentration of the substance. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Separated from strong oxidants.

8.Exposure controls/personal protection

8.1Control parameters Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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 EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities.

. . . .

Thermal hazards

no data available

| 9.Physical and chemical pro | perties |
|----------------------------------|-------------------------------|
| Physical state | Clear viscous liquid |
| Colour | Oily liquid |
| Odour | Faint aromatic odor |
| Melting point/ freezing point | 312\u00b0C(lit.) |
| Boiling point or initial boiling | 237\u00b0C |
| point and boiling range | |
| Flammability | Combustible. |
| Lower and upper explosion | no data available |
| limit / flammability limit | |
| Flash point | 127\u00b0C(lit.) |
| Auto-ignition temperature | 500\u00b0C |
| Decomposition temperature | no data available |
| pH | no data available |
| Kinematic viscosity | 20.5 centistokes at 25\u00b0C |
| Solubility | In water:30 g/L (20 \u00baC) |
| | |

Partition coefficient n- $\log Kow = 1.16$ octanol/water (log value) 0.01 mm Hg (20 \u00b0C) Vapour pressure Density and/or relative 1.102 density Relative vapour density 4.8 (vs air) Particle characteristics no data available 10.Stability and reactivity 10.1Reactivity no data available 10.2Chemical stability STABLE IN PRESENCE OF ACIDS & ALKALIES. 10.3Possibility of hazardous reactions Combustible when exposed to heat or flameETHYLENE GLYCOL PHENYL ETHER may react violently with strong oxidizing agents. May generate flammable and/or toxic gases with alkali metals, nitrides, and other strong reducing agents. May initiate the polymerization of isocyanates and epoxides. 10.4Conditions to avoid no data available 10.5Incompatible materials Can react vigorously with oxidizing materials. 10.6Hazardous decomposition products When heated to decomposition it emits acrid smoke and irritating fumes. 11.Toxicological information Acute toxicity Oral: LD50 Rat oral 2728 mg/kg bw Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12. Ecological information

12.1Toxicity

Toxicity to fish: EC50; Species: Pimephales promelas (fathead minnow); Conditions: flow-through bioassay with measured concentrations, 26.6\u00b0C, dissolved oxygen 6.0 mg/L, hardness 45.0 mg/L calcium carbonate, alkalinity 42.0 mg/L calcium carbonate, and pH 7.62; Concentration: 344 mg/L for 96 hr (confidence limit 337-352 mg/L); Effect: loss of equilibrium Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

AEROBIC: For 2-phenoxyethanol, theoretical BODs of 2% (5-day), 71% (10-day), and 80% (20-day) have been measured(1); a theoretical 20-day BOD of 50% indicates a compound will largely be removed during biological waste treatment(1). 12.3Bioaccumulative potential

An estimated BCF of 1.5 was calculated in fish for 2-phenoxyethanol(SRC), using a log Kow of 1.16(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

12.4Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of 2-phenoxyethanol can be estimated to be 15(SRC). According to a classification scheme(2), this estimated Koc value suggests that 2-phenoxyethanol is expected to have very high mobility in soil.

12.50ther adverse effects

no data available

13.Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containing can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

| 14.Transport information | on | | | | |
|--|--|--------------------|-----------|---|---|
| 14.1UN Number | | | | | |
| ADR/RID: UN3295 | IMDG: UN3295 | IATA: UN329 | 5 | | |
| 14.2UN Proper Shippin | ng Name | | | | |
| ADR/RID: HYDROCAI | RBONS, LIQUID, N.O.S. | | | | |
| IMDG: HYDROCARBO | DNS, LIQUID, N.O.S. | | | | |
| IATA: HYDROCARBO | NS, LIQUID, N.O.S. | | | | |
| 14.3Transport hazard | class(es) | | | | |
| ADR/RID: 3 | IMDG: 3 | IATA: 3 | | | |
| 14.4Packing group, if a | applicable | | | | |
| ADR/RID: III | IMDG: III | IATA: III | | | |
| 14.5Environmental haz | zards | | | | - |
| ADR/RID: no | IMDG: no | IATA: no | | | |
| 14.6Special precaution | ns for user | IT. | A N | | |
| no data available | | | 1 1 | | - |
| 14.7Transport in bulk a | according to Annex II of MARPOL 73/78 a | and the IBC Code | | | - |
| no data available | | | | | |
| | | | // | | |
| 15.Regulatory informa | tion | | | | |
| 15.1Safety, health and | environmental regulations specific for the | e product in quest | tion | | |
| Chemical name | Common names a <mark>nd syn</mark> onyms | CAS number | EC number | | |
| 2-phenoxyethanol | 2-phenoxyethanol | 122-99-6 | none | | |
| European Inventory of | Listed. | | | | |
| EC Inventory | Listed. | | | | |
| United States Toxic St | Listed. | | | | |
| China Catalog of Haza | Not Listed. | | | | |
| New Zealand Inventor | Listed. | | | | |
| Philippines Inventory c | Listed. | | | | |
| Vietnam National Cher | Listed. | | | | |
| Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) | | | Listed | 1 | |

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.