CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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Material safety data sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifiers Product

name : o-Chlorophenol CAS-No. : 95-57-8 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Industrial & for professional use only.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Chronic aquatic toxicity (Category 2), H411 For the full text of the H-Statements mentioned in this Section, see Section 16. Classification according to EU Directives 67/548/EEC or 1999/45/EC Xn Harmful R20/21/22 N Dangerous for the R51/53 environment For the full text of the R-phrases mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal word Warning o-Chlorophenol CAS No 95-57-8 MATERIAL SAFETY DATA SHEET SDS/MSDS Hazard statement(s) H302 + H312 + H332 H411 Precautionary statement(s) P273 P280 Supplemental Hazard Statements 2.3 Other hazards Harmful if swallowed, in contact with skin or if inhaled Toxic to aquatic life with long lasting effects. Avoid release to the environment. Wear protective gloves/ protective clothing. none 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 : C6H5ClO Molecular weight : 128,56 g/mol CAS-No. : 95-57-8 EC-No. : 202-433-2 Index-No. : 604-008-00-0 Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration 2-Chlorophenol CAS-No. 95-57-8 Acute Tox. 4; Aquatic Chronic <= 100 % EC-No. 202-433-2 2; H302 + H312 + H332, H411 Index-No. 604-008-00-0 Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration 2-Chlorophenol CAS-No. 95-57-8 Xn, N, R20/21/22 - R51/53 <= 100 % EC-No. 202-433-2 Index-No. 604-008-00-0 For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16
SECTION 4: First aid measures 4.1 Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Flush eyes with water as a precaution. If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. 5.2 Special hazards arising from the substance or mixture Carbon oxides, Hydrogen chloride gas 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information Use water spray to cool unopened containers.
SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Handle under argon. Stench.

Moisture sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials 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 Components with workplace control parameters 8.2 Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). 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. Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: liquid, clear Colour: light yellow

b) Odour No data available

c) Odour Threshold No data available

d) pH No data available

e) Melting point/freezing 8,0 °C point

f) Initial boiling point and 62,0 - 63,0 °C at 14,7 hPa boiling range

g) Flash point 64,0 °C - closed cup

h) Evaporation rate No data available

i) Flammability (solid, gas) No data available

j) Upper/lower No data available flammability or explosive limits

k) Vapour pressure 1,3 hPa at 121,0 °C

l) Vapour density No data available

m) Relative density 1,26 g/cm3

n) Water solubility No data available

o) Partition coefficient: n- log Pow: 2,17log Pow: 2,32log Pow: 5 octanol/water

p) Auto-ignition No data available temperature

q) Decomposition No data available temperature
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available 9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid Heat, flames and sparks. 10.5 Incompatible materials Acid chlorides, Acid anhydrides, Oxidizing agents 10.6 Hazardous decomposition products Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 670,0 mg/kg Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Page 5 of 8 Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: SK2625000 Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney –

SECTION 12: Ecological information

12.1 Toxicity Toxicity to fish Toxicity to daphnia and other aquatic invertebrates Toxicity to algae LC50 - Lepomis macrochirus (Bluegill) - 5,7 - 12 mg/l - 96,0 h LC50 - Pimephales promelas (fathead minnow) - 6 - 16 mg/l - 96,0 h LC50 - Carassius auratus (goldfish) - 10,7 - 15,2 mg/l - 96,0 h EC50 - Daphnia magna (Water flea) - 6,30 - 17,90 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 3,91 mg/l - 48 h EC50 - Pseudokirchneriella subcapitata (green algae) - 70,00 mg/l - 96 h EC50 - Chlorella vulgaris (Fresh water algae) - 170,00 mg/l - 96 h 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential Bioaccumulation Lepomis macrochirus (Bluegill) - 28 d - 0,00918 mg/l Bioconcentration factor (BCF): 214 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 Other adverse effects Toxic to aquatic life with long lasting effects. No data available Page 6 of 8

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number ADR/RID: 2021 IMDG: 2021 IATA: 2021 14.2 UN proper shipping name ADR/RID: CHLOROPHENOLS, LIQUID IMDG: CHLOROPHENOLS, LIQUID IATA: Chlorophenols, liquid 14.3 Transport hazard class(es) ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 14.4 Packaging group ADR/RID: III IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 190 7/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture No data available 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3. Acute Tox. Acute toxicity Aquatic Chronic Chronic aquatic toxicity H302 Harmful if swallowed. H302 + H312 + Harmful if swallowed, in contact with skin or if inhaled H332 H312 Harmful in contact with skin. H332 Harmful if inhaled. Full text of R-phrases referred to under sections 2 and 3 N Dangerous for the environment Xn Harmful R20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Page 7 of 8 Further information The above information is believed to be correct but does not p