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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

META CHLORO PER BENZOIC ACID (MCPBA)

(3-Chloroperbenzoic Acid)

MSDS CAS: 937-14-4

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: META CHLORO PER BENZOIC ACID
CAS#: 937-14-4
Synonym: 3-chloroperbenzoic acid; 3-Chloroperoxybenzoic Acid; m-CPBA
Chemical Name: Not Available.
Chemical Formula: $C_7H_5ClO_3$

Brand : OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification:

OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
META CHLORO PER BENZOIC ACID	937-14-4	100

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive). The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Section 4: First Aid Measures (Continued)

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: **Not available.**

Section 5: Fire and Explosion Data

Flammability of the Product: **May be combustible at high temperature.**

Auto-Ignition Temperature: **Not available.**

Flash Points: **Not available.**

Flammable Limits: **Not available.**

Products of Combustion: **These products are carbon oxides (CO, CO2), halogenated compounds.**

Fire Hazards in Presence of Various Substances:
Slightly flammable to flammable in presence of open flames and sparks ,of heat..

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of static discharge: Not available.
Highly explosive in presence of shocks.

Fire Fighting Media and Instructions:
Oxidizing material. Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials.

Section 5: Fire and Explosion Data (Continued)

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards:
Material in powder form, capable of creating a dust explosion. May explode if allowed to dry.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Oxidizing material. Organic peroxide. Corrosive solid.
Stop leak if without risk. Do not get water inside container.
Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not use metal tools or equipment. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Section 7: Handling and Storage

Precautions:
Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Never add water to this product. Take precautionary measures against electrostatic discharges. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, alkalis.

Storage:
Refrigerate. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers. Do not store above 4°C (39.2°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Odor	**: Not Available.**
Taste	**: Not Available.**
Molecular Weight	**: 172.57 g/mole**
Color	**: White.**
pH (1% soln/water)	**: Not available.**
Boiling Point	**: Not Available.**
Melting Point	**: 93°C (199.4°F)**
Critical Temperature	**: Not Available.**
Specific Gravity	**: Not Available.**
Vapor Pressure	**: Not Available.**
Vapor Density	**: Not Available.**
Volatility	**: Not available.**
Odor Threshold	**: Not Available.**
Water/Oil Dist. Coeff.	**: Not Available.**
Ionicity (in Water)	**: Not available.**
Dispersion Properties	**: Not available.**
Solubility	**: Insoluble in cold water.**

Section 10: Stability and Reactivity Data

Stability: **The product is stable.**

Instability Temperature: **Not available.**

Conditions of Instability: **Excess heat, incompatible materials.**

Incompatibility with various substances:
Reactive with reducing agents, combustible materials, organic materials, alkalis.

Corrosivity: **Non-corrosive in presence of glass.**

Special Remarks on Reactivity:
Incompatible with:
Nickel, iron, manganese oxide, acids (mineral, nonoxidizing, e.g. hydrochloric acid, hydrofluoric acid, muratic acid, phosphoric acid), metals and metal compounds (toxic, e.g. beryllium, lead acetate, nickel carbonyl, tetraethyl lead), nitrides (e.g. potassium nitride, sodium nitride), combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystryrene, polyurethane), oxidizing agents (strong, e.g. bromine, hydrogen peroxide, nitrogen dioxide, potassium nitrate), reducing agents (strong, e.g., aluminum carbide, chlorosilane, hydrogen phosphide, lithium hydride).

Special Remarks on Corrosivity: **Not Available.**

Polymerization: **Will not occur.**

Section 11: Toxicological Information

Routes of Entry: **Inhalation. Ingestion.**

Toxicity to Animals:
LD50: Not available.
LC50: Not available.

Chronic Effects on Humans:
Causes damage to the following organs: lungs.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung corrosive).
Slightly hazardous in case of skin contact (corrosive), of eye contact (corrosive).

Section 11: Toxicological Information (Continued)

Special Remarks on Toxicity to Animals: **Not available.**

Special Remarks on Chronic Effects on Humans:
May affect genetic material (possible mutangen) and cause adverse reproductive effects (embryotoxicity and fetotoxicity) Suspected carcinogen (tumorigenic) and teratogen based on animal data. Human: passes the placental barrier, detected in maternal milk.

Special Remarks on other Toxic Effects on Humans
Acute Potential Health Effects:
Skin: Causes skin irritation ad possible skin burns.
Eyes: Causes eye irritation and possible burns.
Inhalation: Causes respiratory tract and mucous membran irritation and possible chemical burns to the respiratory tract.
Ingestion: Causes gastrointestinal tract irriation with possible burns. May cause severe and permanent damage to the digestive tract.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation:
The products of degradation are as toxic as the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal :
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

Land transport (ADR-RID)
Proper shipping name: Organic peroxide, type d, solid (3-Chloroperoxybenzoic acid)
UN N°: 3106
ADR - Class: 5.2
ADR – Group: II

Sea transport (IMDG) [English only]
Proper shipping name: Organic peroxide, type d, solid (3-Chloroperoxybenzoic acid)
UN N°: 3106
IMO-IMDG - Class or division: 5.2
IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]
Proper shipping name: Organic peroxide, type d, solid (3-Chloroperoxybenzoic acid)
UN N°: 3106
IATA - Class or division: 5.2
IATA - Packing group: II

Section 15: Other Regulatory Information

Federal and State Regulations:
New Jersey: 3-Chloroperoxybenzoic acid
TSCA 8(b) inventory: 3-Chloroperoxybenzoic acid

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:
HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 1
Reactivity: 3
Personal Protection: j

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Section 15: Other Regulatory Information (Continued)

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 1
Reactivity: 3
Specific hazard:

Protective Equipment:
Gloves. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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