MERCURIC OXIDE RED, EXTRA PURE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: MERCURIC OXIDE RED, EXTRA PURE
Product Code: 616
CAS#: 21908-53-2
Synonym: Not Available
Chemical Name: Not available
Chemical Formula: HgO
Molecular Weight: 216.59

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Name: MERCURIC OXIDE RED, EXTRA PURE
Chemical Formula: HgO
Molecular Weight: 216.59

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008: Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 2), H330
Acute toxicity, Dermal (Category 1), H310
Specific target organ toxicity - repeated exposure (Category 2), Kidney, H373
Short-term (acute) aquatic hazard (Category 1), H400
Long-term (chronic) aquatic hazard (Category 1), H410
Other hazards This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

SECTION 4: FIRST AID MEASURES

Description of first-aid measures:
General advice: Consult a physician. Show this material 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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician
Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labeling
Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture Sulfur oxides Sodium oxides Not combustible. Ambient fire may liberate hazardous vapours
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information 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

Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert
Environmental precautions Do not let product enter drains.
Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Conditions for safe storage, including any incompatibilities
Storage conditions Tightly closed. Dry. Do not store near acids. Keep in a dry place.
Storage class Storage class (TRGS 510): 11: Combustible Solids

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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).
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
Respiratory protection Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Control of environmental exposure Do not let product enter drains

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Red-Orange powder
Odor	:	Not applicable
Taste	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
PH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
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	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity No data available
Chemical stability Stable under recommended storage conditions
Possibility of hazardous reactions Risk of explosion with: nitrates nitrites peroxi compounds Strong oxidizing agents Violent reactions possible with: Fluorine acids
Conditions to avoid No data available
Incompatible materials Strong oxidizing agent

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity LD50 Oral - Rat - 18 mg/kg Remarks: (RTECS) Oral: absorption Acute toxicity estimate Oral - 18 mg/kg (Calculation method) Acute toxicity estimate Inhalation - 4 h - 0,051 mg/l - dust/mist (Expert judgment) Inhalation: absorption Acute toxicity estimate Dermal - 5 mg/kg (Expert judgment) Dermal: (Regulation (EC) No 1272/2008, Annex VI)
Skin corrosion/irritation Not available
Serious eye damage/eye irritation Not available
Respiratory or skin sensitization Not available
Germ cell mutagenicity No data available
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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Toxicity to fish mortality LC50 - Cyprinus carpio (Carp) - 0,16 mg/l - 96 h Remarks: The value is given in analogy to the following substances: Mercury dichloride
Toxicity to daphnia NOEC - Daphnia magna (Water flea) - 0,001 mg/l - 21 d
Persistence and degradability The methods for determining the biological degradability are not applicable to inorganic substances.
Bio accumulative potential No data available
Mobility in soil No data available
Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

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

UN number:
ADR/RID: 1641 **IMDG:** 1641 **IATA:** 1641
UN proper shipping name
ADR/RID: Mercury oxide
IMDG: Mercury oxide
IATA: Mercury oxide
Transport hazard class (es):
ADR/RID: 6.1 **IMDG:** 6.1 **IATA:** 6.1

Packaging group:
ADR/RID: II **IMDG:** II **IATA:** II
Environmental hazards:
ADR/RID: yes **IMDG Marine pollutant:** yes **IATA:** No

SECTION 15: REGULATORY INFORMATION

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. REACH - Restrictions on the manufacture, : Not applicable
Chemical Safety Assessment For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References:
H300 Fatal if swallowed.
H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.
H373 Fatal if swallowed, in contact with skin or if inhaled.
H400 May cause damage to organs (Kidney) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects
Other Special Considerations: Not available

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user‘s obligation to investigate and determine the suitability of the information for their particular purpose.