

**SAFETY DATA SHEET**  
**METAFIX® I-11**

**SDS # :** METAFIXI11  
**Revision date:** 2018-05-24  
**Format:** NA  
**Version** 1



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** METAFIX® I-11

**Recommended use of the chemical and restrictions on use**

**Recommended Use:** Remediation of contaminated soil and groundwater

**Restrictions on Use** Not for direct treatment of potable drinking water.

**Manufacturer/Supplier**

PeroxyChem LLC  
2005 Market Street  
Suite 3200  
Philadelphia, PA 19103  
267/422-2400 (General Information)  
sdsinfo@peroxychem.com (E-Mail General Information)

**Emergency telephone numbers**

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)  
1 303/ 389-1409 (Medical - U.S. - Call Collect)

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**

H302 - Harmful if swallowed  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation



**Precautionary Statements - Prevention**

- P261 - Avoid breathing dust.
- P264 - Wash hands and face thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves and eye/face protection

- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/ attention
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 - Call a POISON CENTER or doctor if you feel unwell
- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 - Rinse mouth

**Precautionary Statements - Storage**

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/ container to an approved landfill

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Causes mild skin irritation

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS-No	Weight %
Trade secret	Proprietary	> 98
crystalline silica, quartz	14808-60-7	< 2

**4. FIRST AID MEASURES**

- Eye Contact** Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
- Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.
- Inhalation** Remove person to fresh air. If breathing is difficult or if discomfort occurs and persists, obtain medical attention.
- Ingestion** Clean mouth with water and afterwards drink plenty of water. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed** Causes serious eye irritation. May cause respiratory tract irritation.

**Indication of immediate medical attention and special treatment needed, if necessary** Treat symptomatically

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific Hazards Arising from the Chemical** No information available.

**Flammable properties** Substance does not burn

**Explosion data**  
**Sensitivity to Mechanical Impact** Not sensitive.  
**Sensitivity to Static Discharge** Not sensitive.

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Avoid dust formation. Wear suitable protective clothing, gloves and eye/face protection.

**Other** For further clean-up instructions, call PeroxyChem Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**Environmental Precautions** Prevent material from entering into soil, ditches, sewers, waterways, and/or groundwater. See Section 12, Ecological Information for more detailed information.

**Methods for Containment** Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Material may be recycled when contamination is not a problem.

**Methods for cleaning up** Sweep or vacuum up spillage and return to container. Then wash with a solution of soap and water. .

**7. HANDLING AND STORAGE**

**Handling** Handle in accordance with good industrial hygiene and safety practice.

**Storage** Keep in a dry, cool and well-ventilated place. Keep at temperatures between 0°C and 50°C.

**Incompatible products** Acids

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
crystalline silica, quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	-	IDLH: 50 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup>	Mexico: TWA 0.1 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
crystalline silica, quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup> respirable	TWA: 0.025 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering measures**                      Ensure adequate ventilation, especially in confined areas. Provide emergency on-site eyewash.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**                      Tightly fitting safety goggles.

**Skin and Body Protection**                Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection**                            Protective gloves

**Respiratory Protection**                    Whenever dust in the worker's breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EU CEN or comparable organization to protect against airborne dust.

**Hygiene measures**                          Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Powder
<b>Physical State</b>	Solid
<b>Color</b>	Dark brown
<b>Odor</b>	odorless
<b>Odor threshold</b>	Not applicable
<b>pH</b>	9.1
<b>Melting point/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	Not applicable
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	Not flammable
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	Soluble in water
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

**Chemical Stability** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** None known.

**Incompatible materials** Acids.

**Hazardous Decomposition Products** None known based on information supplied

**11. TOXICOLOGICAL INFORMATION**

**Product Information**

Harmful if swallowed. Irritating to eyes and respiratory system.

**Serious eye damage/eye irritation** Severely irritating to the eyes.  
**Skin corrosion/irritation** Slightly irritating.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	NOAEL Oral Value
crystalline silica, quartz (14808-60-7)	= 500 mg/kg ( Rat )			

**Information on toxicological effects**

**Symptoms** Dust is irritating eyes, nose, throat, and lungs.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Chronic exposure to silica dust may increase the risk of developing pneumoconiosis or silicosis, chronic diseases affecting the lungs, characterized by labored breathing, cough, reduction of work capacity, reduction of lung capacity, heart enlargement and failure.

Chemical name	ACGIH	IARC	NTP	OSHA
crystalline silica, quartz 14808-60-7	A2	Group 1	Known	X

*ACGIH (American Conference of Governmental Industrial Hygienists) A2 - Suspected Human Carcinogen*  
*IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans*

**Mutagenicity** This product is not recognized as mutagenic by Research Agencies

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.

**STOT - single exposure** May cause respiratory irritation.  
**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects**                      Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

**Persistence and degradability**                      No information available.

**Bioaccumulation**                                      No information available.

**Mobility**    Will likely be mobile in the environment due to its water solubility.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods**                      Dispose of contents/container in accordance with local regulation. Recovery/recycling recommended.

**Contaminated Packaging**                      Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT**    NOT REGULATED

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

This product has the following hazards that are reportable under The Emergency Planning and Community Right-to-Know rule (EPCRA Tier II):

- Serious eye damage/eye irritation
- Acute toxicity
- Specific Target Organ Toxicity (STOT) - Single Exposure

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA/EPCRA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**U.S. State Right-to-Know Regulations**

This product contains the following substances regulated under state Right-to-Know laws:

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
crystalline silica, quartz	X	X	X	X	X

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	California - Proposition 65 - Carcinogens List	California - Proposition 65 - Developmental Toxicity	California - Proposition 65 - Reproductive Toxicity
crystalline silica, quartz 14808-60-7 ( < 2 )	carcinogen		

**CANADA**

**Environmental Emergencies**

This product contains no substances listed under Canada's Environmental Emergency regulations.

**Canadian National Pollutant Release Inventory**

This product contains no substances reportable under Canada's National Pollutant Release Inventory regulations.

**International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/EL INCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)
Trade secret (> 98)	X	X	X		X	X			X
crystalline silica, quartz 14808-60-7 ( < 2 )	X	X	X	X	X	X	X	X	X

**Mexico**

Mexico - Grade Slight risk, Grade 1

**16. OTHER INFORMATION**

NFPA	Health Hazards 1	Flammability 0	Stability 0	Special Hazards -
HMIS	Health Hazards 1	Flammability 0	Physical hazard 0	Personal Protection E

NFPA/HMIS Ratings Legend Protection = E (glasses, gloves, dust mask)

Revision date: 2018-05-24  
 Revision note Initial Release

**Disclaimer**

PeroxyChem believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of PeroxyChem, PeroxyChem expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By:

PeroxyChem

METAFIX - Trademark of Peroxychem  
© 2018 PeroxyChem. All Rights Reserved.  
**End of Safety Data Sheet**