

Safety Data Sheet

United Nuclear

Scientific Equipment & Supplies

Red Iron Oxide

Section 1 Product Description

Product Name: Red Iron Oxide
Recommended Use: Coloration/pigmentation of concrete products, Foundry applications
Synonyms: Ferric Oxide, Iron Oxide
Distributor: United Nuclear Scientific
125 N. 8th Street
Klamath Falls, OR 97601
Tel: (541) 205-6855
24 HR EMERGENCY Telephone Number
VelocityEHS (USA): 800-255-3924

Section 2 Hazard Information

Label Elements

Physical Hazards: Not classified. **Hazard Symbol:** None.
Health Hazards: Not classified. **Signal Word:** None.
Environmental Hazards: Not classified. **Hazard Statement:** The substance does not meet the criteria for classification
OSHA Defined Hazards: Not classified. **Precautionary Statement**

Hazard(s) Not Otherwise Classified (HNOC): None known.

Supplemental Information: None.

Prevention: Observe good industrial hygiene practices.
Response: Wash hands after handling.
Storage: Store away from incompatible materials.
Disposal: Dispose of waste and residues in accordance with local authority requirements.

Section 3 Composition / Information on Ingredients

Substances

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Red Iron Oxide	1309-37-1	100

Impurities

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Silica, Crystalline (Quartz)	14808-60-7	1 - 9

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Section 4

First Aid Measures

Inhalation:	If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion:	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media:	Use foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breather apparatus.
Fire and/or Explosion Hazards:	N/A
Hazardous Combustion Products:	None

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid the generation of dusts during clean-up. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area.
Environmental Precautions:	Avoid runoff into storm sewers and ditches that lead to waterways. Do not flush spill to drain. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	Green—general chemical storage.

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Section 8

Protection Information

Occupational Exposure Limits

U.S. OSHA Table Z-3 (29 CFR 1910.1000)

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.3 mg/m ³	Total dust.
		0.1 mg/m ³	Respirable.
		2.4 mppcf	Respirable.

U.S. ACGIH Threshold Limit Values Impurities

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

U.S. NIOSH: Pocket Guide to Chemical Hazards Impurities

	Type	Value	Form
SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles)
Skin Protection	
Hand Protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal Hazards	Wear appropriate thermal protective clothing, when necessary.
General Hygiene Considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9

Physical Data

Formula: Fe ₂ O ₃	Evaporation Rate (BuAc=1): N/A
Odor: No data available	Vapor Density (Air=1): N/A
Odor Threshold: No data available	Specific Gravity: Varies
pH: N/A	Solubility in Water: No data available
Melting Point: Not Available	Log Pow (calculated): No data available
Boiling Point: No data available	Autoignition Temperature: No data available
Flash Point: No data available	Decomposition Temperature: No data available
Flammable Limits in Air: N/A - N/A	Viscosity: No data available
Vapor Pressure: N/A	Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	No hazardous decomposition products are known
Hazardous Polymerization:	Will not occur

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Section 11

Toxicity Data

Routes of Entry: Inhalation and ingestion

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
No data available	1309-37-1	Not determined	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
No Data Available	1309-37-1	Not Listed	Not Listed	Not Listed

IARC Monographs. Overall Evaluation of Carcinogenicity

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) 1 Carcinogenic to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

U.S. National Toxicology Program (NTP) Report on Carcinogens

SILICA, CRYSTALLINE (QUARTZ) (CAS 14808-60-7) Known To Be Human Carcinogen

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect)

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of a negative reproductive effects.

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: No data

Persistence: No data

Bioaccumulation: No data

Degradability: No data

Other Adverse Effects No data

Chemical Name	CAS Number	Eco Toxicity
N/A	1309-37-1	None

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

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Section 14

Transport Information

Ground - DOT Proper Shipping Name:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	Eco Toxicity	§313 Name	§304 RQ	CERCLA RQ
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No data available	1309-37-1	No	No	No	No
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Section 16

Additional Information

Revised: 09/03/2014

Replaces: N/A

Printed: 5/6/2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. United Nuclear Scientific makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary:

ACGIH

American Conference of

NTP

National Toxicology Program

CAS

Chemical Abstract Service Number

OSHA

Permissible Exposure Limit
Occupational Safety and Health

DOT

U.S. Department of Transportation

ppm

Parts per million

IARC

International Agency for Research on

RCRA

Resource Conservation and Recovery

N/A

Not Available

SARA

Superfund Amendments and

TLV

Threshold Limit Value

TSCA

Toxic Substance Control Act

IDLH

Immediately dangers to life and health