

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/30/2021 Supersedes: 08/30/1999 Version: 1.0

1.1 identification Product form : Red forn Oxide Particles, 0.3-0.8µm Chemical name : Red forn Oxide Particles, 0.3-0.8µm Chemical name : 1309:37:1 Product code : 07674 Formula : Fe203 2.2 Recommended use and restrictions on use Image: State					
Product form : Substance Trade name : Ref Iron Oxide Particles, 0.3-0.8µm Chemical name : Ref Iron Oxide Particles, 0.3-0.8µm Chemical name : Ref Iron Oxide Particles, 0.3-0.8µm CAS-No. : 1309-37.1 Product code : 07674 Formula : Fe2O3 2. Recommended use and restrictions on use Recommended use con -ww polysciences. 40 Valley Road Warrington, PA 18976 - United States T - 1215 343 0444 - F - 1215 343 0214 Info@polysciences con - ww polysciences. 40 Caussification of the substance or mkture Effection 21 Addition (Category 2A Causes serious eye initiation Causes serious eye initiation 2. GHS Label elements, including procautionary statements HS US labeling Hazard statements (GHS US) E Avoid breating dustfume(ga/mist/wapors/spray. Warah hards, forearms and face thoroughy after handling. Use only outdoors or in a wall-walley after handling. Use only outdoors or in a wall-walley after handling. Use only outdoors or in a wall-walley protection. Hardful finhaled Substances Wara protective glove@protective clothing/eye protection. 1 NEYES: Rine cautions/with water for several minutes. Remove contact lenses, in a fees to do. Contrue rinsing. 1 IN EYES: Rine cautions/with water for several minutes. Remove contact lenses, in a fees to do. Contrue rinsing. 1 IN EYES: Rine cautions/with water for several minutes. Remove contact lenses, in a fees to do. Contrue rinsing. 1 IN EYES: Rine cautions/with water for several minutes. Remove c	ECTION 1: Identification				
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Supplier Polysciences Vol Valley Road Warnigton, PA 18976 - United States T + 121 53 43 0214 info@polysciences.com - www.polysciences.com 4. Emergency telephone number Emergency number : 24-hour emergency phone number ChemTel 1-800-255-3824 Section 2: Hazard(s) identification 1. Classification Acute toxicity (inhalation) Category 4 Serious eye damage/eye initiation Category 2A Causes serious eye irritation Serious eye damage/eye initiation Category 2A Causes serious eye irritation Harmful if inhaled Signal word (GHS US) : Warning Harmful if inhaled Precautionary statements (GHS US) : Causes serious eye irritation Harmful if inhaled Precautionary statements (GHS US) : Avoid breathing dust/tume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handing. Use and wealt-wentling dust/tume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handing. Use and voldors or in a well-wentliad area. Wear protective gloves/protective clothing/eye protection. If inhaled area. Wear protective gloves/protective clothing/eye prot	Recommended use	: Use as laboratory reage	ent, Manufacture of sul	bstances	
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	Red Iron Oxide Particles, 0.3-0.8µm				Acute Tox. 4 (Inhalation), H332
11/13/2023 EN (English US)			1	1	Page 1

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Full text	of hazard classes and H-statements : see	section 16
3.2.	Mixtures	
Not app	licable	
SECTI	ON 4: First-aid measures	
4.1.	Description of first aid measures	
First-ai	d measures general	: Call a poison center/doctor/physician if you feel unwell.
First-ai	d measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-ai	d measures after skin contact	: Wash skin with plenty of water.
First-ai	d measures after eye contact	: 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.
First-ai	d measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2.	Most important symptoms and effects	s (acute and delayed)
Sympto	oms/effects after eye contact	: Eye irritation.
4.3.	Immediate medical attention and spec	cial treatment, if necessary
Treat sy	mptomatically.	
SECTI	ON 5: Fire-fighting measures	
5.1.	Suitable (and unsuitable) extinguishin	ng media
Suitabl	e extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Specific hazards arising from the che	
	lous decomposition products in case of	: Toxic fumes may be released.
fire		
5.3.	Special protective equipment and pre	cautions for fire-fighters
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing
		apparatus. Complete protective elething
		apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release measu	
SECTI 6.1.	ON 6: Accidental release measu Personal precautions, protective equi	ires
6.1.	Personal precautions, protective equi	ires
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6.1. 6.1.1. Emerg 6.1.2.	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders	ures pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information
6.1. 6.1.1. Emerg 6.1.2. Protect	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders tive equipment	ures pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information
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 6.1. 6.1.1. Emerg 6.1.2. Protect 6.2. Avoid res 6.3. 	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders tive equipment Environmental precautions lease to the environment. Methods and material for containment	ITES pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". t and cleaning up
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6.1. 6.1.1. Emerg 6.1.2. Protec: 6.2. Avoid re 6.3. Method Other i 6.4.	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders tive equipment Environmental precautions lease to the environment. Methods and material for containment ds for cleaning up nformation Reference to other sections	ITes pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". t and cleaning up : Mechanically recover the product.
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6.1. 6.1.1. Emerg 6.1.2. Protec: 6.2. Avoid re 6.3. Method Other i 6.4. For furth SECT 7.1.	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders tive equipment Environmental precautions lease to the environment. Methods and material for containment ds for cleaning up nformation Reference to other sections mer information refer to section 13. ON 7: Handling and storage	ITes pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". t and cleaning up : Mechanically recover the product.
6.1. 6.1.1. Emerg 6.1.2. Protec: 6.2. Avoid re 6.3. Method Other i 6.4. For furth SECT 7.1. Precau	Personal precautions, protective equi For non-emergency personnel ency procedures For emergency responders tive equipment Environmental precautions lease to the environment. Methods and material for containment ds for cleaning up nformation Reference to other sections er information refer to section 13. ON 7: Handling and storage Precautions for safe handling	JITES pment and emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". t and cleaning up : Mechanically recover the product. : Dispose of materials or solid residues at an authorized site. : Ensure good ventilation of the work station. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid

Store in a well-ventilated place. Keep cool.

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Storage	conditions		: 8	Store at room temp).

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

8.1. Control parameters		
Red Iron Oxide Particles, 0.3-0.8µm (1	309-37-1)	
No additional information available		
3.2. Appropriate engineering control	bls	
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Environmental exposure controls	: Avoid release to the environment.	
3.3. Individual protection measures	/Personal protective equipment	
Hand protection:		
Protective gloves		
Eye protection:		

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and ch	emical properties	
Physical state	: Solid	
Appearance	: dark brown powder.	
Color	: No data available	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: no data	
Freezing point	: Not applicable	
Boiling point	: no data	
Flash point	: no data	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: no data	
Relative vapor density at 20°C	: no data	
Relative density	: No data available	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: Not applicable	

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Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and road	otivity
SECTION 10: Stability and read	clivity
10.1. Reactivity	
The product is non-reactive under norma	al conditions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous read	ctions
No dangerous reactions known under no	rmal conditions of use.
10.4. Conditions to avoid	
None under recommended storage and h	nandling conditions (see section 7)
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pr	roducts
Under normal conditions of storage and u	use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological inf	ormation
11.1. Information on toxicological	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.
ATE US (gases)	4500 ppmV/4h
ATE US (vapors) ATE US (dust, mist)	11 mg/l/4h 1.5 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation. : Not classified
Respiratory or skin sensitization Germ cell mutagenicity	: Not classified
• •	: Not classified
Carcinogenicity	
Red Iron Oxide Particles, 0.3-0.8µm	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
- .	: Not classified
STOT-repeated exposure	
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after eye contact	: Eye irritation.
-	
SECTION 12: Ecological inform	nation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradabilit	V
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 42. Dispession	
SECTION 13: Disposal consident 13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	nation
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	3
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory infor	mation
15.1. US Federal regulations	
Red Iron Oxide Particles, 0.3-0.8µn	
Listed on the United States TSCA (To	oxic Substances Control Act) inventory
15.2. International regulations	
CANADA	
Red Iron Oxide Particles, 0.3-0.8µn	n (1309-37-1)
Listed on the Canadian DSL (Domes	
EU-Regulations	
National regulations	
No additional information available	
15.3. US State regulations	
Pad Iran Ovida Partialas -0.0.0.	- (4200.27.4)
Red Iron Oxide Particles, 0.3-0.8µn	

State or local regulations U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Hazard Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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