

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

Printing date 02/14/2014

Reviewed on 01/27/2014

1 Identification

- · Product identifier
- · Trade name: Supreme
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 Redox Chemicals LLC
 130 South 100 West
 PO Box 129

Burley, ID 83318 Phone: 208-678-2610 Fax: 208-677-3609

· Emergency telephone number: 208-431-2314

2 Hazard(s) identification

· Classification of the substance or mixture



May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 4)



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· HMIS-ratings (scale 0 - 4)



3 Composition/information on ingredients

7439-89-6 iron 2-12%

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:	
12136-45-7	dipotassium oxide	15-35%
	♦ Skin Corr. 1A, H314; Eye Dam. 1, H318	
1314-56-3	phosphorus pentoxide	15-35%
	♦ Skin Corr. 1A, H314	
7440-66-6		2-12%
	Water-react. 1, H260; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
7439-96-5	manganese	2-12%
7727-37-9	nitrogen	≤ 2.5%
	♦ Press. Gas, H281; ♦ STOT SE 2, H371	
7440-50-8	copper	≤ 2.5%

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Give large amounts of water. If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.



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See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

7439-96-5 manganese

PEL | Short-term value: C 5 mg/m³

as Mr

REL | Short-term value: 3 mg/m³

Long-term value: 1 mg/m³

fume, as Mn

TLV Long-term value: 0.02* 0.1* mg/m³ as Mn; *respirable **inhalable fraction

7727-37-9 nitrogen

TLV Simple asphyxiant

7440-50-8 copper

PEL Long-term value: 1* 0.1** mg/m³

as Cu *dusts and mists **fume

REL Long-term value: 1* 0.1** mg/m³

as Cu *dusts and mists **fume

TLV Long-term value: 1* 0.2** mg/m³

*dusts and mists; **fume; as Cu

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

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· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection: Not required.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Powder

Color: Reddish brown Characteristic

· pH-value @ 20 °C (68 °F): 3.5-4.5

· Change in condition

Melting point/Melting range:Not determined.Boiling point/Boiling range:591 °C (1096 °F)

Flash point: Not applicable.Flammability (solid, gaseous): Not determined.

· Ignition temperature:

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Vapor pressure: Not applicable.

Density: Not determined.

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

· Solvent content:

Organic solvents: 0.0 %
Solids content: 39.9 %

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· Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

4 Transport information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es)

· DOT, ADR, ADN, IMDG, IATA

· Class Non-Regulated Material

· Packing group

DOT, ADR, IMDG, IATA Non-Regulated Material

· Environmental hazards:

· Marine pollutant: No

Special precautions for user Not applicable.

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN "Model Regulation":

5 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):		
1314-56-3	phosphorus pentoxide	
· Section 313 (Specific toxic chemical listings):		
7440-66-6	Zinc	
7439-96-5	manganese	
7440-50-8	copper	
TSCA (Toxic Substances Control Act):		

All ingredients are listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

•		
· EPA (Envi	ironmental Protection Agency)	
7440-66-6	Zinc	11
7439-96-5	manganese	D

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7440-50-8	copper	D
7440-42-8	boron	I
· TLV (Thres	shold Limit Value established by ACGIH)	
7439-98-7	molybdenum	A3
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
None of the	e ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	
Corrosive to	o eyes	

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances

State Right	to Know	
12136-45-7	dipotassium oxide	15-35%
	♦ Skin Corr. 1A, H314; Eye Dam. 1, H318	
1314-56-3	phosphorus pentoxide	15-35%
	♦ Skin Corr. 1A, H314	
7439-89-6	iron	2-12%
7440-66-6	Zinc	2-12%
	♦ Water-react. 1, H260; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
7439-96-5	manganese	2-12%
7727-37-9	nitrogen	≤ 2.5%
	♦ Press. Gas, H281; ♦ STOT SE 2, H371	

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 02/14/2014 / 1

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Press. Gas: Gases under pressure: Refrigerated liquefied gas

Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

* Data compared to the previous version altered.

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