

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 12/15/2021 Reviewed on 12/15/2021

1 Identification

· Product Identifier

· Trade Name: TurfRx Supreme

· Relevant identified uses of the substance or mixture and uses advised against:

· Product Description: Fertilizer

· 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:



Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 2 H401 Toxic to aquatic life.

- · Label elements:
- Hazard pictograms:



· Signal word: Danger

· Hazard-determining components of labeling:

Potassium Oxide Phosphorus Pentoxide Zinc sulfate monohydrate

· Hazard statements:

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

• Precautionary statements:

P260 Do not breathe dusts or mists.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

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Specific treatment (see supplementary first aid instructions on this Safety Data Sheet). P321

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

32.1 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *3 Fire = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Substance
- · **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Compone	ents:	
CAS: 12136-45-7	Potassium Oxide	15-35%
	♦ Water-react. 3, H261; ♦ Skin Corr. 1A, H314; Eye Dam. 1, H318	
CAS: 1314-56-3	Phosphorus Pentoxide	10-15%
RTECS: TH 3945000	Skin Corr. 1A, H314	
CAS: 7439-89-6	Iron	2-12%
RTECS: NO 4565500	Flam. Sol. 2, H228; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320; Combustible Dust	
CAS: 7446-19-7	Zinc sulfate monohydrate	2-12%
RTECS: ZH 5300000	♦ Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; ♦ Acute Tox. 4, H302	
CAS: 7439-96-5	Manganese	2-12%
RTECS: OO 9275000	♦ Pyr. Sol. 1, H250; Water-react. 1, H260	
CAS: 7727-37-9	Nitrogen	≤2.5%
RTECS: QW 9700000	Press. Gas, H280; Simple Asphyxiant	
CAS: 7440-50-8 RTECS: GL 5325000	Copper	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

First-Aid Measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: In case of unconsciousness place patient stably in the side position for transportation.

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· After skin contact:

Remove contaminated clothing and wash before reuse.

Immediate medical treatment is necessary. Failure to treat burns can prevent wounds from healing.

Immediately wash skin with soap and plenty of water for at least 20 minutes.

Seek medical treatment.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water.

Get immediate medical attention.

If easy to do so, remove contact lenses if worn.

- · After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for 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: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Potassium Oxide	0.18 mg/m³
Phosphorus Pentoxide	1 mg/m³
Iron	3.2 mg/m³
Manganese	3 mg/m³
Nitrogen	7.96E+05 ppm
Copper	3 mg/m³
Boron	1.9 mg/m³
-	Potassium Oxide Phosphorus Pentoxide Iron Manganese Nitrogen Copper Boron

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7439-98-7	molybdenum	30 mg/m³
PAC-2:		
12136-45-7	Potassium Oxide	2 mg/m³
1314-56-3	Phosphorus Pentoxide	10 mg/m³
7439-89-6	Iron	35 mg/m³
7439-96-5	Manganese	5 mg/m³
7727-37-9	Nitrogen	8.32E+05 ppm
7440-50-8	Copper	33 mg/m³
7440-42-8	Boron	21 mg/m³
7439-98-7	molybdenum	330 mg/m³
PAC-3:		
12136-45-7	Potassium Oxide	54 mg/m³
1314-56-3	Phosphorus Pentoxide	50 mg/m³
7439-89-6	Iron	150 mg/m³
7439-96-5	Manganese	1,800 mg/m³
7727-37-9	Nitrogen	8.69E+05 ppm
7440-50-8	Copper	200 mg/m³
7440-42-8	Boron	130 mg/m³
7439-98-7	molybdenum	2,000 mg/m ³

7 Handling and Storage

- · Handling
- · 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: Store in the original container.
- 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 occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

7727-37-9 Nitrogen	
TLV see App. F Minimal oxygen content (D)	
7440-50-8 Copper	
PEL Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume	

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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 of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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



Protective gloves

· 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 cannot 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:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.

Avoid release into the environment.

9 Physical and Chemical Properties

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

Form: Liquid
Color: Brown

Odor: Characteristic
Odor threshold: Not determined.

· pH-value @ 20 °C (68 °F): 3-4

· Change in condition

Melting point/Melting range: Not determined.

· Flash point: None

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Flammability (solid, gaseous): Not applicable.
 Ignition temperature: Not applicable
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

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

· Explosion limits:

Lower: Not determined. Not determined.

Vapor pressure: Not determined.

Density: Not determined.

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

· Solubility in / Miscibility with:

Water: Fully miscible.

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

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

VOC content: 0.00 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- 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

Oral LD50 9,000 mg/kg (Rat)

- · Information on toxicological effects:
- · Acute toxicity:

LD/LC50 values that are relevant for classification:	
7439-89-6 Iron	
Oral LD50 7,500 mg/kg (Rat)	
7446-19-7 Zinc sulfate monohydrate	
Oral LD50 2,150 mg/kg (Rat)	
7439-96-5 Manganese	

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- · Primary irritant effect:
- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye:

Strong irritant with the danger of severe eye injury.

Corrosive effect.

Causes serious eye irritation.

· Additional toxicological information:

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

Corrosive

Irritant

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has lead to hemolytic anemia and accelerates arteriosclerosis.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

<u>12 Eco</u>logical Information

- · Toxicity:
- · Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

7439-96-5 Manganese

EC50 40 mg/l (Water flea)

7440-50-8 Copper

EC50 0.04-0.05 mg/l (Water flea)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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- · 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. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

*14 Transport Information

· UN-Number:

· DOT, ADR/ADN, IMDG, IATA

UN1759

· UN proper shipping name:

· DOT

Corrosive solids, n.o.s. (Potassium monoxide, Phosphorus

pentoxide)

· ADR/ADN

UN1759 CORROSIVE SOLID, N.O.S. (POTASSIUM MONOXIDE, PHOSPHORUS PENTOXIDE),

ENVIRONMENTALLY HAZARDOUS

· IMDG

· IATA

CORROSIVE SOLID, N.O.S. (POTASSIUM MONOXIDE,

PHOSPHORUS PENTOXIDE), MARINE POLLUTANT

CORROSIVE SOLID, N.O.S. (POTASSIUM MONOXIDE,

PHOSPHORUS PENTOXIDE)

- · Transport hazard class(es):
- · DOT



· Class: 8 Corrosive substances

· Label:

· ADR/ADN



· Class: 8 (C10) Corrosive substances

· Label:

· IMDG



· Class: 8 Corrosive substances

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Trade Name: TurfRx Supreme

· Label: 8

·IATA



· Class: 8 Corrosive substances

· Label:

· Packing group:

· DOT, ADR/ADN, IMDG, IATA

· Environmental hazards: Product contains environmentally hazardous substances:

Zinc sulfate monohydrate

Symbol (fish and tree) · Special marking (ADR/ADN):

· Special precautions for user: Warning: Corrosive substances

· Hazard identification number (Kemler code): 80 F-A,S-B · EMS Number:

Segregation groups: Alkalis, acids Stowage Category

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

· Transport/Additional information:

· DOT

· Quantity limitations: On passenger aircraft/rail: 15 kg

On cargo aircraft only: 50 kg

· ADR/ADN

• Excepted quantities (EQ): Code: E2

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· IMDG

· Limited quantities (LQ): 1 kg

Excepted quantities (EQ): Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1759 CORROSIVE SOLID, N.O.S. (POTASSIUM

MONOXIDE, PHOSPHORUS PENTOXIDE), 8, II,

ENVIRONMENTALLY HAZARDOUS

5 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.
- SARA (Superfund Amendments and Reauthorization):

Section 355	(extremely	nazardous	substances):
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1314-56-3 Phosphorus Pentoxide

· Section 313 (Specific toxic chemical listings):

7446-19-7 Zinc sulfate monohydrate

7439-96-5 Manganese

7440-50-8 Copper

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Safety Data Sheet (SDS)
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12136-45-7	Potassium Oxide	ACTIVI
	Phosphorus Pentoxide	ACTIVI
7439-89-6	·	ACTIVI
	Manganese	ACTIVI
7727-37-9		ACTIVI
7440-50-8	_	ACTIVI
7440-42-8	···	ACTIVI
7439-98-7	molybdenum	ACTIV
Hazardous	Air Pollutants	1
7439-96-5 N	Manganese	
	Proposition 65:	
Chemicals	known to cause cancer:	
None of the	ingredients are listed.	
Chemicals	known to cause reproductive toxicity for females:	
	ingredients are listed.	
Chemicals	known to cause reproductive toxicity for males:	
None of the	ingredients are listed.	
Chemicals	known to cause developmental toxicity:	
None of the	ingredients are listed.	
New Jersey	Right-to-Know List:	
12136-45-7	Potassium Oxide	
1314-56-3	Phosphorus Pentoxide	
7439-96-5	Manganese	
7727-37-9	Nitrogen	
7440-50-8	Copper	
7440-42-8	Boron	
7439-98-7	molybdenum	
New Jersey	Special Hazardous Substance List:	
12136-45-7	Potassium Oxide	CO, R
1314-56-3	Phosphorus Pentoxide	CO, R
	Manganese	F3, R1
Pennsylvan	ia Right-to-Know List:	'
-	Phosphorus Pentoxide	
7439-96-5 M	Manganese Tanganese	
7727-37-9	Vitrogen	
7440-50-8	Copper	
7439-98-7 r	nolybdenum	
Bonnoulvan	ia Special Hazardous Substance List:	
Pellisylvali		
-	Phosphorus Pentoxide	

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7440 50 0 0		_
7440-50-8 Copper	 	
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· Carcinogenic categories:

	our onrog o	ino catogorico.	
· EPA (Environmental Protection Agency):			
ľ	7446-19-7	Zinc sulfate monohydrate	D, I, II
	7439-96-5	Manganese	D
	7440-50-8	Copper	D
	7440-42-8	Boron	I (oral)
Ī	· TLV (Thre	shold Limit Value established by ACGIH):	
	7439-98-7	molybdenum	A3
Ī	· NIOSH-Ca	(National Institute for Occupational Safety and Health):	
ľ	None of the	e ingredients are listed.	

· GHS label elements

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

· Hazard pictograms:



· Signal word: Danger

· Hazard-determining components of labeling:

Potassium Oxide

Phosphorus Pentoxide

Zinc sulfate monohydrate

· Hazard statements:

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

· Precautionary statements:

P260 Do not breathe dusts or mists.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a poison center/doctor.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

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

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Contact:
- · Date of last revision/ revision number: 12/15/2021 / 4
- · Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Press. Gas: Gases under pressure – Dissolved gas

Flam. Sol. 2: Flammable solids – Category 2 Pyr. Sol. 1: Pyrophoric solids – Category 1

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

Water-react. 3: Substances and mixtures which in contact with water emit flammable gases - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

* Data compared to the previous version altered.

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