



Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 533

Review date September 1, 2020

1 Identification of substance and company

Product name: **Potassium tungstate**
Product code: 12805, 12963
Relevant identified uses of the substance or mixture and uses advised against: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: (210) 691-2000
Web site: www.noahtech.com
Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Hazard designation:
GHS label elements



Signal word: Warning
Pictogram(s): Exclamation mark
Hazard statements: H302 - Harmful if swallowed
Precautionary statements: P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+312+330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell. Rinse mouth.
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse
Hazards not otherwise classified: None
Ingredients of unknown acute toxicity: None
GHS classification: Acute toxicity, oral - 4
HMIS ratings (scale 0-4):
Health 1
Flammability 0
Physical hazard 0

3 Composition/Information on ingredients

Chemical name: Potassium tungstate
Designation: (CAS#): 7790-60-5
Formula: K_2WO_4
Synonyms: Potassium tungsten oxide, dipotassium wolframite
Identification number(s):
EC Number: 232-215-2

4 First aid measures

After inhalation: Seek immediate medical advice
After skin contact: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Instantly wash with water and soap and rinse thoroughly
If irritation persists, consult a physician
After eye contact: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. Consult a physician.
After swallowing: If conscious, rinse mouth out with water and seek immediate medical attention
Symptoms/effects; acute and delayed: Tungsten compounds may be irritating to the eyes and respiratory tract. Animal studies suggest that soluble tungsten compounds have the potential for causing adverse health effects involving the gastrointestinal tract and central nervous system. These effects have not been observed in humans. Chronic exposure to tungsten compounds may result in permanent lung damage.

Immediate medical attention and special treatment needed: See above

5 Fire-fighting measures

Suitable extinguishing agents: Non-flammable; Use extinguishing media most appropriate to surrounding fire conditions
Special hazards caused by the material, its products of combustion or resulting gases: In case of fire, the following can be released:
Oxides of potassium and tungsten
Protective equipment: Wear self-contained breathing apparatus
Wear fully protective fire fighting equipment/clothing in fire situations

6 Accidental release measures

Person-related safety precautions: Wear personal protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits
Measures for cleaning/collecting: Dispose of contaminated material as waste according to item 13
Place in a suitable container for proper disposal
Ventilate and wash spill site after material removal is complete
Additional information: See Section 7 for information on safe handling
See Section 8 for information on personal protective equipment
See Section 13 for information on disposal

7 Handling and storage

Information for safe handling: Keep containers tightly sealed
Store in cool, dry place in tightly closed containers
Ensure good ventilation/exhaustion at the workplace

Information about protection against explosions and fires: This product is not flammable

Storage requirements to be met by storerooms and containers:

Keep dry; strongly hygroscopic

Information about storage in one common storage facility:

Do not store together with strong oxidizers

Further information about storage conditions:

Keep container tightly sealed
Store in cool, dry conditions in well sealed containers

8 Exposure controls/personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

Components with critical values that require monitoring at the workplace:

NIOSH REL: TWA 1 mg(W)/m³
ACGIH TLV: TWA 1 mg(W)/m³

Additional information: None

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals

Keep away from foodstuffs, beverages and food
Instantly remove any soiled and impregnated garments
Wash hands during breaks and at the end of the work

Respiratory protection:

Use suitable respirator when high concentrations are present
Use only NIOSH/MESA or CEN approved dust mask type N95 or TYPE P1 (EN 143)

Hand protection:

Impervious gloves

Eye protection:

Safety glasses

Skin protection:

Protective work clothing

Additional protective equipment:

Sufficient to prevent contact
Emergency eyewash and safety shower

9 Physical and chemical properties

General Information:

Physical state: Powder
Color: White to off-white
Smell: Odorless
Molecular Weight (Calculated): 326.05
pH (5% solution) No data available
Melting point/range: 921 C
Boiling point/range: No data available
Flash point: Not applicable
Autoignition temperature: Not applicable

Decomposition temperature:	No data available
Danger of explosion:	Product does not present an explosion hazard
Flammable limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapor pressure (mm Hg):	No data available
Specific gravity at 20 °C	3.12
Solubility in/Miscibility with water at 20 °C	Soluble in about 2 parts cold water

10 Stability and reactivity

Conditions to be avoided:	No decomposition if used and stored according to specifications See section 7 for information on proper handling and storage
Materials to be avoided:	Strong oxidizers See section 7 for additional incompatibilities
Dangerous reactions:	No dangerous reactions known
Hazardous decomposition products:	Oxides of potassium and tungsten

11 Toxicological information

Acute toxicity:	
LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 1190 mg/kg
Primary irritant effect:	
on the skin:	May cause irritation
on the eye:	May cause irritation
Sensitization:	No sensitizing effect known
Additional toxicological information:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

12 Ecological information

Toxicity:	
Toxicity to fish:	No data available
Toxicity to daphnia and other aquatic invertebrates:	No data available
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	No data available
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13 Disposal considerations

Product recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste
Unclean packaging recommendation:	Disposal must be made according to official regulations
Recommended cleaning agent:	Water, if necessary with cleaning agent

14 Transport information

Land transport DOT

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Potassium tungstate

Air transport ICAO-TI and IATA-DGR:

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Potassium tungstate

UPS Ground / FedEx Ground

Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Potassium tungstate

UPS Air

Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium tungstate

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: Not subject
SARA Section 311 / 312 hazards: No SARA Hazards
SARA Section 313 components: Not subject
California Proposition 65 components: Not subject
TSCA: This product is listed in the TSCA Inventory

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.