



Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 558

Review Date: October 19, 2018

1 Identification of substance and company

Product details

Product name: *Phosphotungstic acid, sodium salt, hydrate*
Product code: 17772
Relevant identified uses of the substance: 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

Hazard statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary statements:

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P264 - Wash skin thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/ eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 - 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.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 - If skin irritation occurs: Get medical advice / attention
P337 + P313 - If eye irritation persists: Get medical advice / attention
P362 - Take off contaminated clothing and wash before reuse
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

GHS Classification in accordance with 29 CFR 1910:

Skin irritation - 2
Eye irritation - 2A
Specific target organ toxicity - single exposure - 3, respiratory system

Hazards not otherwise classified:

None

HMIS ratings (scale 0-4):

Health	2
Flammability	0
Physical hazard	0

3 Composition/Information on ingredients

Chemical name: Phosphotungstic acid, sodium salt, hydrate
Designation: (CAS#): 51312-42-6
Formula: $\text{Na}_3\text{PO}_4 \cdot 12\text{WO}_3 \cdot x\text{H}_2\text{O}$
Synonyms: Sodium phosphotungstate (tungstophosphate) tribasic, hydrate

Trisodium 12-wolframophosphate, hydrate
Tungstophosphoric acid, sodium salt

Identification number(s):

EC Number: 257-132-9

4 First aid measures

After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact: Wash off with soap and plenty of water. 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 medical advice

5 Fire-fighting measures

Suitable extinguishing agents: Use extinguishing media most appropriate to surrounding fire conditions
Special hazards caused by the material, its products of combustion or resulting gases: Oxides of sodium, phosphorus 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. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.
Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits
Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Sweep up and shovel.
Place in a suitable container for proper disposal
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: No data available
Storage requirements to be met by storerooms and containers: No special requirements
Information about storage in one common storage facility: Do not store together with strong oxidizers or strong bases.
Further information about storage conditions: Keep container tightly sealed

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: ACGIH TLV: TWA 1 mg(W)/m³; STEL 3 mg(W)/m³
NIOSH REL: 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: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact.
Eye protection: Safety glasses with side shields
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 slightly yellow
Smell:	Odorless
Molecular Weight (Calculated):	2880.2 anhydrous
pH (5% solution)	No data available
Melting point/range:	350 C (decomposes)
Boiling point/range:	No data available
Flash point:	Non-flammable
Autoignition temperature:	No data available
Decomposition temperature:	No data available
Danger of explosion:	No data available
Flammable limits:	
Lower:	No data available
Upper:	No data available
Vapor pressure (mm Hg):	No data available
Specific gravity at 20 °C	No data available
Solubility in/Miscibility with water at 20 °C	Soluble

10 Stability and reactivity

Reactivity:	No data available
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to be avoided:	Heat See section 7 for information on proper handling and storage
Materials to be avoided:	Strong bases and strong oxidizers
Dangerous reactions:	Not determined
Hazardous decomposition products:	Oxides of sodium, phosphorus and tungsten

11 Toxicological information

Acute toxicity:	
LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 1600 mg/kg (anhydrous) oral-mouse LD ₅₀ : 700 mg/kg (anhydrous)
Primary irritant effect:	
on the skin:	Mild
on the eye:	Moderate
Sensitization:	No data available
Additional toxicological information:	Moderately toxic by ingestion. May cause irritation to the eyes, skin, mucous membranes and upper respiratory tract. Prolonged inhalation may result in permanent damage to the lungs.
Carcinogenicity:	No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH
Additional information:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 Ecological information

General notes:	No further relevant toxicity information available Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system Do not allow material to be released to the environment without proper governmental permits
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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:	Phosphotungstic acid, sodium salt
Air transport ICAO-TI and IATA-DGR:	
Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Phosphotungstic acid, sodium salt
UPS Ground / FedEx Ground:	

Proper shipping name: Chemicals Non-Hazardous
Technical name: Phosphotungstic acid, sodium salt

UPS Air:

Proper shipping name: Chemicals Non-Hazardous
Technical name: Phosphotungstic acid, sodium salt

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 311/312 hazards:

Acute Health Hazard

SARA Section 313 components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313

California Proposition 65 components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm

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.