



Safety Data Sheet

According to 29 CFR 1910.1200

SDS No. 578

Review date October 8, 2015

1 Identification of substance and company

Product details

Product name: ***Barium tungstate***
Product code: 12877
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+332 Harmful if swallowed or if inhaled
Precautionary statements: P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301+312+330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
P304+340+312 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.
P363 Wash contaminated clothing before reuse

Hazards not otherwise classified: None
Ingredients of unknown acute toxicity: None
GHS classification: Acute toxicity, oral - 4
Acute toxicity, inhalation - 4

HMIS ratings (scale 0-4):

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

3 Composition/Information on ingredients

Chemical name: Barium tungstate
Designation: (CAS#): 7787-42-0
Formula: BaWO₄
Synonyms: Barium tungsten oxide, barium wolframate
Identification number(s):
EC Number: 232-114-3

4 First aid measures

After inhalation: Seek immediate medical advice
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

After skin contact: 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: Ingestion may cause excessive salivation, severe abdominal pain, vomiting, paralysis, gastroenteritis, increased blood pressure, convulsive tremors and hypocalcaemia.

Immediate medical attention and special treatment needed: NOTE: Acute barium poisoning gives a rapid decrease in blood potassium level

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 barium 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:	No special requirements
Information about storage in one common storage facility:	Do not store together with strong acids
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:	OSHA PEL: TWA 0.5 mg(Ba)/m ³ :8H ACGIH TLV: TWA 0.5 mg(Ba)/m ³ :8H
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
Smell:	Odorless
Molecular Weight (Calculated):	385.19
pH (5% solution)	Not determined
Melting point/range:	Not determined
Boiling point/range:	Not determined
Flash point:	Non-flammable
Autoignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product does not present an explosion hazard
Flammable limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure (mm Hg):	Not determined
Specific gravity at 20 °C	5.04
Solubility in/Miscibility with water at 20 °C	Insoluble

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 acids See section 7 for additional incompatibilities
Dangerous reactions:	No dangerous reactions known
Hazardous decomposition products:	Oxides of barium and tungsten

11 Toxicological information

Acute toxicity:	
LD/LC50 values that are relevant for classification:	No data available

Primary irritant effect:
on the skin: May cause irritation
on the eye: May cause irritation
Sensitization: No sensitizing effect known
Additional toxicological information: Ingestion may cause excessive salivation, severe abdominal pain, vomiting, paralysis, gastroenteritis, increased blood pressure, convulsive tremors and hypocalcaemia.
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

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

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: Barium tungstate

Air transport ICAO-TI and IATA-DGR:

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

UPS Ground / FedEx Ground

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

UPS Air

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

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: Not subject
SARA Section 311 / 312 hazards: Acute Health Hazard
SARA Section 313 components: This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-know Act of 1986 and 40CFR372
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.