SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: Potassium Sulfide

Product Number: All applicable American Elements product codes, e.g. K-S-02 02, K-S-03 03, K-S-04 04, K-S-05 05

CAS #: 1312-73-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS02 Flame
Self-heat. 1
H251 Self-heating: may catch fire.
GHS05 Corrosion
Skin Corr. 1B H314 Causes severe skin burns and eye damage.

GHS label elements
The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS02 GHS05

Signal word
Danger

Hazard-determining components of labeling: dipotassium sulphide

Hazard statements
H251 Self-heating: may catch fire.
H314 Causes severe skin burns and eye damage.
Precautionary statements  
P231  
Handle under inert gas.  
P301+P310  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233  
Store in a well-ventilated place. Keep container tightly closed.  
P422  
Store contents under inert gas.  
P501  
Dispose of contents/container in accordance with local/regional/national/international regulations.  
Classification system:  
NFPA ratings (scale 0 - 4)  
Health = 3  
Fire = 0  
Reactivity = 0  
HMIS-ratings (scale 0 - 4)  
Health = 3  
Fire = 0  
Reactivity = 0  
Other hazards  
Results of PBT and vPvB assessment  
PBT:  
N/A  
vPvB:  
N/A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances  
CAS # / Substance Name  
1312-73-8 dipotassium sulphide  
Identification number(s)  
EC number:  
215-197-0  
Index number:  
016-006-00-1

SECTION 4. FIRST AID MEASURES

Description of first aid measures  
General information:  
Immediately remove any clothing soiled by the product.  
If inhaled:  
In case of unconsciousness place patient stably in side position for transportation.  
In case of skin contact:  
Immediately wash with soap and water; rinse thoroughly.  
In case of eye contact:  
Rinse opened eye for several minutes under running water. Consult a physician.
If swallowed:
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 data available
Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5. FIREFIGHTING 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
During heating or in case of fire poisonous gases are produced.
Advice for firefighters
Protective equipment:
Mouth respiratory protective device.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Use personal protective equipment. Keep unprotected persons away.
Environmental precautions:
Do not allow product to enter drains, sewage systems, or other water courses.
Inform respective authorities in case of seepage into water courses, or sewage systems.
Methods and materials for containment and cleanup:
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
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.

SECTION 7. HANDLING AND STORAGE

Handling:
Handle under inert gas.
Precautions for safe handling
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
Conditions for safe storage, including any incompatibilities:
Store contents under inert gas.
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.
Store in cool, dry conditions in well sealed receptacles.
Specific end use(s)
No data available

SECTION 8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Additional information about design of technical systems:
No further data; see item 7.
Control parameters
Components with limit values that require monitoring at the workplace:
Not required.
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.
Avoid contact with the eyes and skin.
Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Protection of hands:
Protective gloves
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.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
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.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:
Tightly sealed goggles

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information
Appearance:
Form: Powder  
Color: Light yellow  
Odor: Like rotten eggs (mercaptans)  
Odor threshold: No data available.  
pH: N/A  
Melting point/Melting range: no data °C  
Boiling point/Boiling range: no data °C  
Flash point: N/A  
Flammability (solid, gas): Product is not flammable.  
Ignition temperature:  
Decomposition temperature: No data available.  
Autoignition: No data available.  
Danger of explosion: No data available.  
Explosion limits:  
Lower: No data available.  
Upper: No data available.  
Vapor pressure: no data hPa  
Density at 20 °C (68 °F): 1.805 g/cm³ (15.063 lbs/gal)  
Relative density:  
No data available.  
Vapor density:  
N/A  
Evaporation rate:  
N/A  
Solubility in Water (H₂O): Insoluble.  
Partition coefficient (n-octanol/water): No data available.  
Viscosity:  
Dynamic: N/A  
Kinematic: N/A  
Solvent content:  
Organic solvents: 0.0 %  
VOC content: 0.0 g/l / 0.00 lb/gl  
Solids content: 100.0 %  
Other information:  
No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity  
No data 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 data available  
Incompatible materials:  
No data available  
Hazardous decomposition products:  
No dangerous decomposition products known.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity:
Primary irritant effect:
on the skin:
Caustic effect on skin and mucous membranes.
on the eye:
Strong caustic effect.
Sensitization:
No sensitizing effects known.
Additional toxicological information:
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Carcinogenic categories
IARC (International Agency for Research on Cancer)
Substance is not listed.
NTP (National Toxicology Program)
Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)
Substance is not listed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity:
No data available
Persistence and degradability
No data available
Behavior in environmental systems:
Bioaccumulative potential
No data available
Mobility in soil
No data available
Additional ecological information:
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Results of PBT and vPvB assessment
PBT:
N/A
vPvB:
N/A
Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation:
Must not be disposed of together with household garbage. Do not allow product to enter drains, sewage systems, or other water courses system.
Uncleaned packagings:
Recommendation:
Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number
DOT, IMDG, IATA
UN1382

UN proper shipping name
DOT, IATA
Potassium sulfide
IMDG
POTASSIUM SULPHIDE

Transport hazard class(es)
DOT
Class
4.2 Substances liable to spontaneous combustion
Label
4.2
IMDG, IATA
Class
4.2 Substances liable to spontaneous combustion
Label
4.2

Packing group
DOT, IMDG, IATA
II

Environmental hazards:
Marine pollutant:
No

Special precautions for user
N/A

Danger code (Kemler):
40
EMS Number: F-A,S-J

Segregation groups
Alkalis
Stowage Category
A

Segregation Code
SG35 Stow "separated from" acids.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
N/A

Transport/Additional information:
DOT
Quantity limitations
On passenger aircraft/rail: 15 kg
On cargo aircraft only: 50 kg
IMDG
Limited quantities (LQ)

Excepted quantities (EQ)
SECTION 15. REGULATORY INFORMATION

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

Sara
Section 355 (extremely hazardous substances):
Substance is not listed.
Section 313 (Specific toxic chemical listings):
Substance is not listed.
TSCA (Toxic Substances Control Act):
Substance is listed.
Proposition 65
Chemicals known to cause cancer:
Substance is not listed.
Chemicals known to cause reproductive toxicity for females:
Substance is not listed.
Chemicals known to cause reproductive toxicity for males:
Substance is not listed.
Chemicals known to cause developmental toxicity:
Substance is not listed.
Carcinogenic categories
EPA (Environmental Protection Agency)
Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)
Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)
Substance is not listed.

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.