

Potassium Sulfide		Pricing >	
Linear Formula	K <sub>2</sub> S		
Pubchem CID	162263		
MDL Number	N/A		
EC No.	215-197-0		
IUPAC Name	dipotassium sulfide		
Beilstein/Reaxys No.	N/A		
SMILES	[K+].[K+].[S-2]		
Inchl Identifier	InChI=1S/2K.S/q2*+1;-2		
Inchl Key	DPLVEEXVKBWGHE-UHFFFAOYSA-N		

IIICIII Ney	DPLVEEXVKBVVGHE-UHFFFAUTSA-N		
Signal Word		Warning	
Hazard Statements		H251	
Hazard Codes		F, C	
Risk Codes		N/A	
Safety Statements		N/A	
Transport Information		UN1382 4.2/PG II	
GHS Pictogra	ams	GHS05 Corrosive GHS02 Flame	

Create Printable PDF

### **SAFETY DATA SHEET**

**Date Accessed:** 05/28/2024 **Date Revised:** 01/15/2022

### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for 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: Domestic, North America +1 800-424-9300 International +1 703-527-3887

#### **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/PERSONAL 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/cm<sup>3</sup> (15.063 lbs/gal)

Relative density No data available. Vapor density

N/A

**Evaporation rate** 

N/A

Solubility in Water (H<sub>2</sub>O): 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**

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

Ш

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

Α

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)

Code: E2

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

UN "Model Regulation":

UN 1382 POTASSIUM SULFIDE, 4.2, II

# 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.

### 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 1997-2022 AMERICAN ELEMENTS, LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.