# Chemical Book India

Chemical Safety Data Sheet MSDS / SDS								
Dipotassium hexafluorosilicate SDS Revision Date:2024-04-25 Revision Number:1								
Section 1 Section 9	Section 2 Section 10	Section 3 Section 11	Section 4 Section 12	Section 5 Section 13	Section 6 Section 14	Section 7 Section 15	Section 8 Section 16	

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier	
Product name:	Dipotassium hexafluorosilicate
CAS:	16871-90-2

## Relevant identified uses of the substance or mixture and uses advised against

 Relevant identified
 For R&D use only. Not for medicinal, household or other use.

 uses:
 uses advised

 uses:
 none

 against:

#### **Company Identification**

Company:	Chemicalbook.in
Address:	5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090
Telephone:	+91 9550333722

# **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

Acute toxicity - Category 3, Oral Acute toxicity - Category 3, Dermal Acute toxicity - Category 3, Inhalation

#### GHS label elements, including precautionary statements

Pictogram(s)

3

Signal word

Danger

#### Hazard statement(s)

H301 Toxic if swallowed H311 Toxic in contact with skin H331 Toxic if inhaled

#### Precautionary statement(s)

#### Prevention

P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.

#### Response

P301+P316 IF SWALLOWED: Get emergency medical help immediately.
P321 Specific treatment (see ... on this label).
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P316 Get emergency medical help immediately.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

#### Storage

P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in classification

no data available

# SECTION 3: Composition/information on ingredients

#### Substance

Chemical name:	Dipotassium hexafluorosilicate
Common names and synonyms:	Dipotassium hexafluorosilicate
CAS number:	16871-90-2
EC number:	240-896-2
Concentration:	100%

# **SECTION 4: First aid measures**

#### Description of necessary first-aid measures

#### If inhaled

Fresh air, rest. Refer for medical attention.

#### Following skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower.

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth. Do NOT induce vomiting. See Notes. Refer immediately for medical attention.

#### Most important symptoms/effects, acute and delayed

no data available

#### Indication of immediate medical attention and special treatment needed, if necessary

no data available

# **SECTION 5: Firefighting measures**

#### Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### Specific hazards arising from the chemical

Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.

#### Special protective actions for fire-fighters

In case of fire in the surroundings, use appropriate extinguishing media.

# SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered sealable containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

#### Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

# SECTION 7: Handling and storage

# Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### Conditions for safe storage, including any incompatibilities

Separated from acids and food and feedstuffs.

# SECTION 8: Exposure controls/personal protection

**Control parameters** 

#### Occupational Exposure limit values

Component	Dipotassiumh	exafluorosilicate			
CAS No.	16871-90-2				
	Limit value - Eight hours		Limit value - Short term		
	ppm	<sub>mg/m</sub> 3	ppm	<sub>mg/m</sub> 3	
Latvia	?	0,2	?	?	
	Remarks				

#### **Biological limit values**

no data available

#### Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

#### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety goggles or eye protection in combination with breathing protection if powder.

#### Skin protection

Protective gloves. Protective clothing.

# Respiratory protection

Avoid inhalation of dust. Use local exhaust or breathing protection.

# Thermal hazards

no data available

# SECTION 9: Physical and chemical properties and safety characteristics

Physical state:	Solid. Powder.
Colour:	White.
Odour:	no data available
Melting point/freezing point:	°Cd ec.)
Boiling point or initial boiling point and boiling range:	no data available
Flammability:	no data available
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH:	no data available
Kinematic viscosity:	no data available
Solubility:	1.77 g / L (20 °C)

Partition coefficient n- octanol/water:	no data available
Vapour pressure:	no data available
Density and/or relative density:	2.3
Relative vapour density:	no data available
Particle characteristics:	no data available

# SECTION 10: Stability and reactivity

#### Reactivity

no data available

#### Chemical stability

no data available

#### Possibility of hazardous reactions

Decomposes on heating. This produces toxic and corrosive fumes including fluorine. Reacts with acids. This produces corrosive hydrogen fluoride (see ICSC 0283).

### Conditions to avoid

no data available

# Incompatible materials

no data available

#### Hazardous decomposition products

no data available

# SECTION 11: Toxicological information

Acute toxicity

Oral: LD50 - rat (male) - ca. 114 mg/kg bw. Remarks:As sodium fluoride. Inhalation: LC50 - rat (female) - ca. 2.021 mg/L air. Dermal: LDLo - rat - ca. 70 mg/kg bw.

## Skin corrosion/irritation

no data available

# Serious eye damage/irritation

no data available

#### Respiratory or skin sensitization

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

### STOT-single exposure

The substance may cause effects on the blood and calcium metabolism. This may result in cardiac disorders. Medical observation is indicated. See Notes.

## STOT-repeated exposure

The substance may have effects on the bones and teeth. This may result in fluorosis.

#### Aspiration hazard

A harmful concentration of airborne particles can be reached quickly when dispersed.

# **SECTION 12: Ecological information**

#### Toxicity

Toxicity to fish: LC100 - Danio rerio (previous name: Brachydanio rerio) - ca. 50 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - ca. 35.4 mg/L - 48 h.

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - >=  $16.6 - \langle = 19.6 \text{ mg/L} - 72 \text{ h.} \rangle$ 

Toxicity to microorganisms: EC50 - activated sludge - >= 132 - <= 216 mg/L - 3 h. Remarks: Respiration rate.

#### Persistence and degradability

no data available

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

# SECTION 13: Disposal considerations Disposal methods Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **SECTION 14: Transport information**

#### **UN Number**

ADR/RID: UN2655 (For reference only, please check.) IMDG: UN2655 (For reference only, please check.) IATA: UN2655 (For reference only, please check.)

#### **UN Proper Shipping Name**

ADR/RID: POTASSIUM FLUOROSILICATE (For reference only, please check.) IMDG: POTASSIUM FLUOROSILICATE (For reference only, please check.) IATA: POTASSIUM FLUOROSILICATE (For reference only, please check.)

#### Transport hazard class(es)

ADR/RID: 6.1 (For reference only, please check.) IMDG: 6.1 (For reference only, please check.) IATA: 6.1 (For reference only, please check.)

#### Packing group, if applicable

ADR/RID: III (For reference only, please check.) IMDG: III (For reference only, please check.) IATA: III (For reference only, please check.)

#### Environmental hazards

ADR/RID: No IMDG: No IATA: No

#### Special precautions for user

no data available

#### Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

#### EC Inventory

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Listed.

China Catalog of Hazardous chemicals 2015

Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

(PICCS)

Listed.

Vietnam National Chemical Inventory

Listed.

IECSC)

Listed.

Korea Existing Chemicals List (KECL)

Listed.

# **SECTION 16: Other information**

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=O&request\_locale=en

CAWEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

## Other Information

Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available.

Disclaimer: 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. We as supplier shall not be held liable for any