



# Material Safety Data Sheet

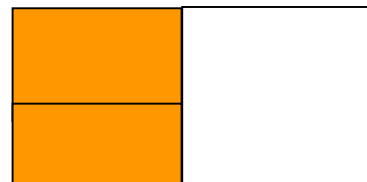
## 1: Identification

**Name:** Potassium chloride

**CAS:** 007447-40-7

**Chemical formula:** KCl

**Description:** fertilizer. Crystallized granular solid, in white or pink color.



## 2: Composition/Information on Ingredients

**Appearance:** Solid crystalline, odorless, dissolves in the water

**Composition:** Potassium chloride {007447-40-7} 97-98%

Sodium chloride {007647-14-5} 2-2.5%

## 3: Hazards Identification

Irritating to the eyes and respiratory tracts.

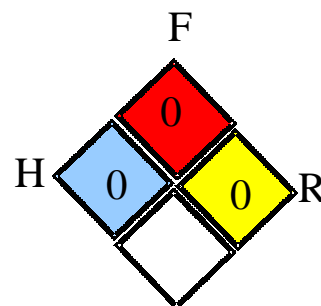
Inhalation of dust may produce irritation to the gastro-intestinal.

May cause irritation to the skin.

May harm if swallowing large amount.

**Carcinogenicity:** No data available.

**IDLH:** (Immediately Dangerous to Life and Health): No data available.



Health (H) Flammability (F)  
Reactivity (R) in scale 0 (not  
hazardous) till 4 (extremely  
hazardous).

For more information about symptoms in exposure – see paragraph 4.

For more data about chemical reaction and incompatibles – see paragraph 10.

#### **4: First Aid Measures**

- Symptoms:** This substance is not considered toxic or dangerous, though care should be taken during use and any questions referred to medical personnel.
- Skin:** The substance is not dangerous. However, over exposure or contact with open wounds may cause slightly burns.
- Eyes:** Wash with water for at least 15 minutes (open eyes).
- Ingestion:** The substance is not dangerous. Large amount may harm. Obtain medical attention.
- Inhalation:** The substance is not dangerous by inhalation.

#### **5: Fire-Fighting Measures**

**Non flammable**

**Specific hazard:**

**Extinguishing media:** Use appropriate extinguishing for substances around.  
Use supplied-air breathing equipment on fire.

#### **6: Accidental Release Measures**

Avoid raising dust.  
Wear protective gear and gloves. Scoop up materials into containers for later disposal (according to the local regulations). Wash the spilled area with water.

#### **7: Handling and Storage**

Keep away from flammable substances and ignition sources.

Do not store together with strong oxidizing agents.

Safety phrases:

Do not breathe dust.

Avoid contact with skin and eyes.

## **8: Exposure Control and Personal Protection**

**Threshold values:** PEL-OSHA for 8 hours 15 mg/m<sup>3</sup> (TWA)\*  
TLV-ACGIH for 8 hours 10 mg/m<sup>3</sup> (TWA)\*  
PEL-OSHA for 8 hours 5 mg/m<sup>3</sup> (TWA)\*\*  
\*as total dust  
\*\* as respirable fraction for nuisance dust

**Protective equipment:** Generally, personal protection is a function of exposure. It is recommended to use safety spectacles or goggles, normal working shoes, normal working clothes. Working should be done in a well-ventilated area.  
In addition: Dust mask and filter type P2, gloves.

**In case of an emergency:** Full protective gear and a self-contained breathing apparatus should be used, according to the severity.

## **9: Physical and Chemical Properties:**

**Boiling point °C:** 1500 Sublimation  
**Melting point °C:** 773  
**Density gr/cm<sup>3</sup>:** 1.9870  
**Vapor density (air=1):** 2.59  
**Vapor pressure (mm Hg):** Not available  
**Solubility (in water):** 28.1%  
**pH:** 7, Neutral  
**Thermal decomposition:** Not available  
**Flash point °C:** Non-flammable  
**Auto-ignition temperature °C:** Not available  
**LEL:** Not available **UEL:** Not available  
**Viscosity:** Not available

## **10: Stability and Reactivity**

**Hazardous polymerization:** Will not occur.

**Chemical reactivity:** Stable under proper handling. Reacts violently with BrF<sub>3</sub> and sulfuric acid at 600°C. Decomposes above 700°C.

**Hazardous decomposition products:** Potassium oxides and hydrogen chloride.

## **11: Toxicological Information**

LD50 (oral rat) 2600 mg/kg

LD50 (intraperitoneal rat) 660 mg/kg

## **12: Ecological Information**

**Environmental hazards:** No data available.

**Biodegradability:** No data available.

## **13: Disposal Considerations**

Waste disposal should be according to the local regulations only.

## **14: Transport Information**

**RID/ADR:** Not regulated

**UN recommendations:** Not regulated

**IMCO:** Not regulated

## **15: Regulatory Information**

**EPA Flag (s):** XU.

**TSCA:** Listed

**DSL:** Listed

**AICS:** Listed

## **16: Other Information**

Risk phrases: R36/37

Safety phrases: S22, S24/25

**EINECS:** 231-211-8

**RTECS:** TS8050000

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