



Safety Data Sheet

According to 29 CFR 1910.1200 (OSHA HCS)

SDS No. 1696

Review date: September 27, 2018

1 Identification of substance and company

Product name: **Potassium chloride**
Product code: 11756, 11757, 17725, 90915
Relevant use and restrictions on use: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com

Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Hazard designation: None
Information pertaining to particular dangers for man and environment: Not applicable
HMIS ratings (scale 0-4): Health: 1
Flammability: 0
Physical hazard: 0

3 Composition/Information on ingredients

Chemical name: Potassium chloride
Designation: (CAS#): 7447-40-7
EC Number: 231-211-8
Formula: KCl
Synonyms: Chloropotassuril, enseal, kalitabs, potavescent
Ingredients of known acute toxicity: None

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 ingestion: If conscious, rinse mouth out with water and seek medical attention

Information for doctor: Show this safety data sheet to the doctor in attendance

Symptoms and effects, both acute and delayed: May cause irritation to the eyes, skin, and/or respiratory system
Hyperkalemia may cause tiredness or weakness, a feeling of numbness or tingling, nausea or vomiting, trouble breathing, chest pain, palpitations or irregular heartbeats. In extreme cases, high potassium can cause paralysis or heart failure. If left untreated, high potassium levels can cause cardiac arrest.

Indication of any immediate medical attention and special treatment needed: See above

5 Fire-fighting measures

Suitable extinguishing agents: 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 potassium and hydrogen chloride

Special fire fighting procedures: Wear self-contained breathing apparatus
Wear fully protective fire fighting equipment/clothing in fire situations

Unusual fire and explosion hazard: Not applicable

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
Incompatibility (avoid contact with):	Strong oxidizers and acids, bromine trifluoride, potassium permanganate plus sulfuric acid Water/moisture
Further information about storage conditions:	Keep container tightly sealed Store in cool, dry conditions in well sealed containers

8 Exposure controls/personal protection

Ventilation requirements:	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:	None
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 Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection:	Use suitable respirator when high concentrations are present
(Use only NIOSH or CEN approved Equipment)	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
Precautionary labeling:	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Store in tightly closed containers Store in a cool, dry place. Irritant.

9 Physical and chemical properties

General Information:	
Physical state:	Powder
Color:	White
Odor:	Odorless
Odor threshold:	No data available
Molecular Weight (Calculated):	74.56
pH (5% solution)	5.4 - 8.6 @ 25 C
Melting point/freezing point/range:	773 C
Boiling point/range:	1500 C (sublimes)
Sublimation temperature/start:	>1500 C
Decomposition temperature:	No data available
Flammability (solid, gas):	
Flash point:	Non-flammable
Autoignition temperature:	No data available
Danger of explosion:	No data available
Flammable limits:	
Lower:	No data available

Upper:	No data available
Evaporation rate:	No data available
Vapor pressure (mm Hg):	No data available
Vapor density:	No data available
Specific gravity:	1.984
Bulk density:	No data available
Solubility in/Miscibility with water:	344 g/L cold water 567 g/L @ 100 C
Partition coefficient n-octanol/water:	No data available
Viscosity:	No data available
Other information:	No additional information

10 Stability and reactivity

Reactivity:	Not determined
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Not determined
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:	Water/moisture (hygroscopic) Strong oxidizing agents and acids, bromine trifluoride, potassium permanganate plus sulfuric acid
Dangerous reactions:	No dangerous reactions known
Hazardous decomposition products: (thermal and other)	Oxides of potassium and hydrogen chloride

11 Toxicological information

Acute toxicity:	
LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 2,600 mg/kg intravenous-rat LD ₅₀ : 39 mg/kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	No data available
Primary irritant or corrosive effect:	
on the skin:	May cause mild irritation
on the eye:	May cause mild irritation
Sensitization:	No sensitizing effect known
Potential health effects:	No data available
Inhalation:	May be harmful
Ingestion:	May be harmful
Skin:	May cause mild irritation
Eyes:	May cause mild irritation
Signs and symptoms of exposure:	Product may be harmful if inhaled or ingested. Product may cause irritation to the eyes, skin, and/or respiratory system Hyperkalemia may cause tiredness or weakness, a feeling of numbness or tingling, nausea or vomiting, trouble breathing, chest pain, palpitations or irregular heartbeats. In extreme cases, high potassium can cause paralysis or heart failure. If left untreated, high potassium levels can cause cardiac arrest. To the best of our knowledge the acute and chronic toxicity of the substance is not fully known
Carcinogenicity:	Not identified as a carcinogen or potential carcinogen by IARC, ACGIH, NTP or OSHA

12 Ecological information

Toxicity:	
Toxicity to fish:	Fathead minnow LC ₅₀ : 880 mg/L:96H
Toxicity to daphnia and other aquatic invertebrates:	Daphnia magna EC ₅₀ : > 440 mg/L:48H
Toxicity to algae:	Green algae EC ₅₀ : > 100 mg/L:72H
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	No data available
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

13 Disposal considerations

Recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
Unclean packaging recommendation:	Disposal must be made according to official regulations

14 Transport information

Land transport DOT

Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium chloride

Air transport ICAO-TI and IATA-DGR:

Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium chloride

UPS Ground / FedEx Ground

Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium chloride

UPS Air

Proper shipping name: Chemicals Non-Hazardous
Technical name: Potassium chloride

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: Not subject to reporting requirements
SARA Section 311 / 312 hazards: Not subject to reporting requirements
SARA Section 313 components: Not subject to reporting requirements
California Proposition 65 components: Not subject to reporting requirements
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.