

Revision date: 06-30-2014

# SAFETY DATA SHEET

## 1. Identification

Product identifier: POTASSIUM CHLORIDE

Other means of identification

Product No.: 4001, 3045, 3052, 3040, 6858, 6845, 6841, 6838, 3046

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

#### Hazard classification

**Health hazards** 

Serious eye damage/eye irritation Category 2B

**Environmental hazards** 

Acute hazards to the aquatic Category 3

environment

Label elements

Hazard symbol: No symbol

Signal word: Warning

**Hazard statement:** Causes eye irritation.

Harmful to aquatic life.

**Precautionary statement** 

**Prevention:** Wash thoroughly after handling. Avoid release to the environment.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation

persists: Get medical advice/attention.

**Disposal:** 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.



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Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
POTASSIUM CHLORIDE		7447-40-7	99 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth. Drink a few glasses of water or milk. Call a POISON

CENTER or doctor/physician if you feel unwell.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin contact:** Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse. Destroy

contaminated clothing and shoes.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if irritation persists after

washing.

Most important symptoms/effects, acute and delayed

**Symptoms:** Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed.

# 5. Fire-fighting measures

General fire hazards: No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters



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Special fire fighting procedures:

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well

after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up:

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

**Notification Procedures:** 

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handling:

Avoid generation and spreading of dust. Avoid inhalation of dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.

## 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

None of the components have assigned exposure limits.

Appropriate engineering

No data available.

controls

#### Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use

process enclosures, local exhaust ventilation, or other engineering controls

to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

**Eye/face protection:** Wear safety glasses with side shields (or goggles). Use tight fitting goggles

if dust is generated.

**Skin protection** 



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**Hand protection:** Chemical resistant gloves

**Other:** Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation use suitable respirator. During dust-raising

work: Dust mask/respirator.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before

eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes,

skin, and clothing.

# 9. Physical and chemical properties

**Appearance** 

Physical state: Solid
Form: Powder.
Color: White
Odor: Odorless

Odor threshold: No data available.

pH: Approximate 7 (15 °C) Saturated solution in water

Melting point/freezing point: 771 °C Initial boiling point and boiling range: 1,500 °C

Flash Point:

Evaporation rate:

No data available.

No data available.

No data available.

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Solubility(ies)

Solubility in water: 344 g/l (20 °C)
Solubility (other): glycerol: Soluble
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

Other information

Molecular weight: 74.55 g/mol (CIK)

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.



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**Conditions to avoid:** Excessive heat. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition** 

products:

Thermal decomposition emits toxic fumes of chlorine. Oxides of potassium.

# 11. Toxicological information

## Information on likely routes of exposure

**Ingestion:** May be harmful if swallowed.

**Inhalation:** May be harmful if inhaled.

**Skin contact:** May cause irritation.

**Eye contact:** Causes eye irritation.

## Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 2,600 mg/kg

**Dermal** 

**Product:** 

No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** May cause skin irritation.

Serious eye damage/eye irritation

**Product:** Causes eye irritation.

Respiratory or skin sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

No carcinogenic components identified

## **US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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## Germ cell mutagenicity

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific target organ toxicity - single exposure Product: None known.

Specific target organ toxicity - repeated exposure

**Product:** None known.

**Aspiration hazard** 

Product: Not classified

Other effects: None known.

# 12. Ecological information

## **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

POTASSIUM CHLORIDE LC 50 (Fathead minnow (Pimephales promelas), 96 h): 750 - 1,020 mg/l

Mortality

**Aquatic invertebrates** 

**Product:** No data available.

Specified substance(s):

POTASSIUM CHLORIDE EC 50 (Water flea (Daphnia magna), 48 h): 83 mg/l Intoxication

LC 50 (Water flea (Daphnia magna), 96 h): 29 mg/l Mortality

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and degradability

Biodegradation

**Product:** The product is readily biodegradable.

**BOD/COD** ratio

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration factor (BCF)** 

**Product:** No data available on bioaccumulation.



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Partition coefficient n-octar Product:	nol / water (log Kow) No data available.		
Mobility in soil:	The product is water soluble and may spread in water systems.		
Other adverse effects:	Harmful to aquatic organisms.		
13. Disposal considerations			
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. 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.		
Contaminated packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.		
14. Transport information			
DOT Not regulated.			
IMDG Not regulated.			
IATA			
Not regulated.			
15. Regulatory information			
US federal regulations			
	ification (40 CFR 707, Subpt. D) ated Substances (29 CFR 1910.1001-1050) at in regulated quantities.		
CERCLA Hazardous Substan None present or none presen			
Superfund amendments and	reauthorization act of 1986 (SARA)		
Hazard categories			
X Acute (Immediate) C	Chronic (Delayed) Fire Reactive Pressure Generating		
SARA 302 Extremely haza None present or no	ardous substance one present in regulated quantities.		
SARA 304 Emergency rel None present or no	ease notification one present in regulated quantities.		
SARA 311/312 Hazardous  Chemical identity  POTASSIUM CHLORIDE	Threshold Planning Quantity		
SARA 313 (TRI reporting)			

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SARA 313 (TRI reporting)

None present or none present in regulated quantities.



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## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## **US state regulations**

#### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

## **US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

#### **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

# US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

#### **US. Rhode Island RTK**

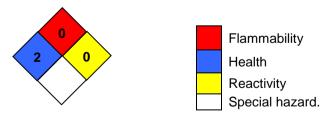
No ingredient regulated by RI Right-to-Know Law present.

## **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory On or in compliance with the inventory New Zealand Inventory of Chemicals: Japan ISHL Listing: On or in compliance with the inventory Japan Pharmacopoeia Listing: Not in compliance with the inventory.

## 16.Other information, including date of preparation or last revision

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 06-30-2014

**Revision date:** No data available.

Version #: 1.0

**Further information:** No data available.



Disclaimer:

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