

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.

3477 Corporate Parkway, Suite 200

Telephone:

Center Valley, PA 18034

Address:

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%

^{*} 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 offer the fire is out.

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

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 controls

No data available.

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.

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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: Initial boiling point and boiling range: 771 °C 1.500 °C

Flash Point:

No data available.

Evaporation rate:

No data available.

Flammability (solid, gas):

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

No data available.

Flammability limit - lower (%):

No data available.

Explosive limit - upper (%): Explosive limit - lower (%):

No data available. No data available.

Vapor pressure:

No data available.

Vapor density:

No data available. 1.99 (20 °C)

Relative density: Solubility(les)

Solubility in water:

344 g/l (20 °C)

Solubility (other):

glycerol: Soluble

Partition coefficient (n-octanol/water):

No data available. No data available.

Auto-ignition temperature:

No data available.

Decomposition temperature:

No data available.

Other information

Molecular weight:

74.55 g/mol (CIK)

10. Stability and reactivity

Reactivity:

Viscosity:

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

Blodegradation

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-octa 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			
TSCA Section 12(b) Export Not US. OSHA Specifically Regulation None present or none present	ification (40 CFR 707, Subpt. D) ated Substances (29 CFR 1910.1001-1050) It in regulated quantities.		
CERCLA Hazardous Substan None present or none presen			
Superfund amendments and	reauthorization act of 1986 (SARA)		
Hazard categories			
X Acute (Immediate)	hronic (Delayed) Fire Reactive Pressure Generating		
SARA 302 Extremely haze None present or no	ardous substance ne present in regulated quantities.		
SARA 304 Emergency rele None present or no	ease notification ne present in regulated quantities.		
SARA 311/312 Hazardous Chemical identity	chemical Threshold Planning Quantity		
POTASSIUM CHLORIDE	500 lbs		
SARA 313 (TRI reporting) None present or no	ne 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. Penńsylvania 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: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List:

China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI):

Canada NDSL inventory: Philippines PICCS: US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

On or in compliance with the inventory

On or in compliance with the inventory On or in compliance with the inventory

On or in compliance with the inventory

On or in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory.

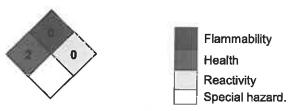
On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory

On or in compliance with the inventory

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.



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