

MATERIAL SAFETY DATA SHEET

AMBER CHEMICAL INCORPORATED

(661) 325-2072

POTASSIUM CHLORIDE SOLUTION

Effective Date: 01/18/2007
Product Code: 14236
MSDS: 003056

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Potassium Chloride Solution

COMPANY IDENTIFICATION:

Amber Chemical Inc.
5201 Boylan Street
Bakersfield, CA 93308

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Potassium chloride CAS# 007447-40-7 20-24%
Water 76-80%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR) 1910.1200. In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

3. HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW

Hazardous Chemical. The product is odorless and is a colorless to slightly yellow solution. May cause slight eye irritation with corneal injury. Repeated exposure may cause skin irritation and a more severe response if the skin is scratched or cut. The oral LD₅₀ for rats is expected to be >2000 mg/kg.

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYE: May cause slight irritation with corneal injury.

SKIN: Repeated exposure may cause skin irritation. May cause more severe response if skin is abraded (scratched or cut). A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The dermal LD₅₀ has not been determined.

INGESTION. Single dose oral toxicity is low. The oral LD₅₀ for rats is expected to be >2000 mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

INHALATION: Mists may cause irritation of the upper respiratory tract (nose and throat).

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: For potassium chloride, in animals, effects have been reported on the following organs: gastrointestinal tract, heart and kidney. For potassium fluoride, human signs and symptoms may include gastrointestinal distress. In humans, effects have been reported on the following organ: lung. May cause fluorosis of the teeth and bones.

CANCER INFORMATION: Potassium chloride did not cause cancer in laboratory animals.

TERATOLOGY (BIRTH DEFECTS): Potassium chloride did not cause birth defects or any other fetal effects in laboratory animals. Fluorides may cause mottling of teeth in children of mothers exposed excessively before or during pregnancy or during lactation.

REPRODUCTIVE EFFECTS: No relevant information found.

4. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5. FIRE FIGHTING MEASURES:

FLASH POINT: Not applicable
METHOD USED: Not applicable

FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable

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EXTINGUISHING MEDIA: Not applicable

FIRE AND EXPLOSION HAZARDS: None

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS: Use absorbent material to absorb spills, then sweep up and collect in container for disposal. Water may be used to complete cleaning.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Product should be stored in tightly closed original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

EXPOSURE GUIDELINE(S): Potassium chloride: Amber Chemical's Industrial Hygiene Guideline is 10 mg/M³.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator. In misty atmospheres, use a NIOSH approved mist respirator.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full-body suit will depend on operation. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

EYE PROTECTION: Use chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES:

BOILING POINT: 230°F (110°C)

VAPOR PRESSURE: Approx. 12 mm Hg at 20°C

VAPOR DENSITY: Not applicable

SOLUBILITY IN WATER: Very soluble

SPECIFIC GRAVITY: 1.16 as 21% solution

APPEARANCE: Colorless or slightly yellow solution

ODOR: Odorless

10. STABILITY AND REACTIVITY:

STABILITY: (CONDITIONS TO AVOID) Stable under normal storage conditions.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Metals will slowly corrode in aqueous potassium chloride solutions.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Not known to occur.

11. TOXICOLOGICAL INFORMATION:

MUTAGENICITY: In-vitro mutagenicity studies were positive.

12. ECOLOGICAL INFORMATION:

ECOTOXICOLOGY: No relevant information found.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or disposal. Wastes are toxic. Improper disposal of excess waste is a violation of federal law. If these wastes cannot be disposed according to label instructions contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORT INFORMATION:

For DOT regulatory information, if required, consult transportation regulations.

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15. REGULATORY INFORMATION:

16. OTHER INFORMATION:

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of New Jersey or Pennsylvania.

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND): To the best of our knowledge, this product contains no chemical subject to reporting under CERCLA.

The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult Amber Chemical For Further Information.