

MATERIAL SAFETY DATA SHEET

SAFEWAY KA RUNWAY DE-ICER

Substance key: 000000161725
Version : 1 - 2 / USA

Revision Date: 02/03/2006
Date of printing :03/17/2006

Section 01 - Product Information

Identification of the company:

Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704-331-7000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:

SAFEWAY KA RUNWAY DE-ICER

Primary product use:

Deicing of roads and surfaces

Chemical family:

Aqueous solution of Potassium acetate with corrosion inhibitors

Section 02 - Composition information on hazardous ingredients

Hazardous ingredients:

None under 29 CFR 1910.1200
None under Title III of SARA

Section 03 - Hazards identification

Expected Route of entry:

Inhalation:	no
Skin contact:	no
Eye contact:	no
Ingestion:	no
Skin absorption:	no

Health effects of exposure:

Based on animal studies of a product or products of similar composition, this product is expected to be a non-irritant to eyes and skin.

Known effects on other illnesses:

No known effects on other illnesses for this product.

Listed carcinogen:

IARC: No
NTP: No
OSHA: No
Other: No

HMIS:

Health: 1

Flammability: 0

Reactivity: 0

Personal protection: D

Section 04 - First aid measures

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After inhalation:

If irritation of nose or throat develops from exposure to fumes, move away from source of exposure and into fresh air. If irritation develops, get medical attention.

After contact with skin:

Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

After contact with eyes:

Immediately flush the eyes with large amounts of water, occasionally lifting the upper and lower eyelids, for at least 15 minutes. Seek medical attention immediately.

After ingestion:

If ingested, seek medical assistance immediately.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint:	> 212 °F Method: DIN 51376 (open cup)
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Self ignition:	not self-igniting
Ignition temperature:	> 1,022 °F Method: DIN 51794

Hazardous combustion products:

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)

Extinguishing media: Product itself is non-combustible; Fire extinguishing method of surrounding areas must be discussed.

Special fire fighting procedure:

Product is non-combustible. Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self contained or equivalent) and full protective clothing. Use water spray to cool fire-exposed containers.

Section 06 - Accidental release measures

Steps to be taken in case of spill or leak:

Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent, and place in a suitable container.

Section 07 - Handling and storage

Advice on safe handling:

Do not use zinc containers.

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Further info on storage conditions:

Store in original container.
Keep containers closed.

Section 08 - Exposure controls / personal protection

Respiratory protection:	If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134
Hand protection:	Butyl Rubber, PVC Or Neoprene.
Eye protection:	Safety glasses or chemical splash goggles.
Other protective equipment:	Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

IDLH:

Not Determined

Section 09 - Physical and chemical properties

Form:	Liquid
Color:	blue
Odor:	almost odourless
pH:	9 - 11.5 (20 °C) Method: ASTM D 1287 Determined in the undiluted form
Solubility in water:	(20 °C) miscible in all proportions
Soluble in ... :	fat not determined
Density:	approx. 1.28 g/cm ³ (20 °C) Method: DIN 51757
Freezing point :	approx. -31 °F Method: ASTM D 1177
Boiling temperature :	approx. 240 °F (1,013 mbar) Method: ASTM D 1120
Vapor pressure:	approx. 15 Torr (20 °C)
Bulk density:	Not applicable
Relative vapor density:	not determined

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Partitioning coef. octanol/water:	Not applicable
Viscosity / (dynamic):	4 - 6 mPa.s (20 °C) Method: DIN 51562
Viscosity / (kinematic):	not determined

Section 10 - Stability and reactivity

Thermal decomposition:	No decomposition if used as prescribed., Stable up to boiling point.
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Section 11 - Toxicological information

Product information:	
Acute oral toxicity:	LD50 > 2,000 mg/kg (rat) Source: RTECS Data relate to main components
Acute inhalation toxicity:	not determined
Acute dermal toxicity:	not determined
Skin irritation:	Non-irritating (rabbit)
Eye irritation:	Non-irritating (rabbit)

Section 12 - Ecological information

Product information:	
Biodegradation:	> 90 % Method: DIN 38412 T.24 Source: Analogy
Fish toxicity:	LC50 > 1,000 mg/l (96 h, zebra fish) Method: OECD 203 Source: Analogy
Daphnia toxicity:	EC50 > 1,000 mg/l (Daphnia magna) Method: DIN 38412 T.11 Source: Analogy
Bacteria toxicity:	EC0 > 12.5 g/l Method: OECD 209 Source: Analogy
Chemical oxygen demand (COD):	330 mg/g Source: Analogy
Biological oxygen demand (BOD):	300 mg/g Source: Analogy

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Remarks:

May be eliminated in purification plants

Section 13 - Disposal considerations**Waste disposal information:**

Recommended disposal is by incineration in approved facilities.

RCRA hazardous waste:

No -- Not as sold.
RCRA number: NONE

Section 14 - Transport information

DOT	not restricted
IATA	not restricted
IMDG	not restricted

Section 15 - Regulatory information**TSCA Status:**

All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):

Reactive hazard:	no
Pressure hazard:	no
Fire hazard:	no
Immediate/acute:	no
Delayed/chronic:	no

SARA 313 information:

This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act:

Contains no known priority pollutants at concentrations greater than 0.1%.

Volatile organic compounds VOC:

Remarks: Not Available

FDA:

This product is not registered with the FDA.

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Section 16 - Other information

Other precautions:

None Known

Label information:

ATTENTION!

UPON EVALUATION, IT HAS BEEN DETERMINED THAT THIS PRODUCT IS NOT SUBJECT TO THE LABELING REQUIREMENTS OF OSHA REGULATION 29CFR 1910.1200.

Good work practices dictate that care be taken to avoid skin and eye contact and ingestion. Washing after handling is advised.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of Clariant AG, its business partners or suppliers.