

## SAFEWAY SF RUNWAY DE-ICER

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Substance key: SXR096769  
Version : 3 - 0 / CDN

Revision Date: 06/09/2015  
Date of printing :07/07/2016

WHMIS controlled: no

**Section 01 - Product and company identification****Identification of the company:**

Clariant Corporation  
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Charlotte, NC, 28205  
Telephone No.: +1 704 331 7000

**Information of the substance/preparation:**

ESHA  
Phone (514) 832 2559, Fax (704) 330 1505  
Canada.PS@Clariant.com

**Emergency tel. number:** +1 800-424-9300 CHEMTREC, +1 (703) 527-3887 INTERNATIONAL

**Trade name:** SAFEWAY SF RUNWAY DE-ICER

**Material number:** 107966

**Chemical family:** sodium formate with inhibitor

**Primary product use:** De-icing.

**Section 02 - Hazards identification****Health effects of exposure:**

Any available toxicological data is shown in Section 11. No other information was found in the public literature for any effects of exposure and no health evaluation is thus possible.

Therefore, handle with care and avoid unnecessary exposures.

Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, skin and/or eyes.

**Listed carcinogen:**

OSHA Specifically Regulated  
Chemicals/Carcinogens: Not listed

Other: No

NTP - National Toxicology Program Report: Not listed

International Agency for Research on Cancer  
(IARC) - Overall Evaluations of Carcinogenicity to  
Humans.: Not listed

**Section 03 - Composition/information on ingredients**

**Hazardous ingredients:**

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Component	CAS number	Concentration
Sodium metasilicate	6834-92-0	1 - 5 %

Disclosed for information purposes only.

**Component toxicity information:**

Sodium metasilicate ( 6834-92-0 )

**Acute oral toxicity:** LD50 995 - 1,530 mg/kg (Rat)

Source: literature

**Acute inhalation toxicity:** LC50 > 2.06 mg/l (4 h, Rat)

Source: European Chemicals Agency (ECHA)

By analogy with a product of similar composition

**Acute dermal toxicity:** LD50 > 5,000 mg/kg (Rat)

Source: European Chemicals Agency (ECHA)

By analogy with a product of similar composition

**Section 04 - First aid measures****After inhalation:**

Get victim to fresh air. Loosen tight clothing such as collar, tie, belt or waistband. If breathing is difficult administer oxygen. If victim is not breathing, give mouth to mouth resuscitation. Get prompt medical attention. Warning: giving mouth to mouth resuscitation when the inhaled material is toxic may be hazardous to the person providing aid.

**After contact with skin:**

Remove contaminated clothing and wash affected areas with soap and plenty of water for at least 15 minutes. If redness or skin irritation occurs, seek medical attention.

**After contact with eyes:**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**After ingestion:**

If swallowed, DO NOT induce vomiting.  
Get immediate medical advice/ attention.

**Advice to doctor / Treatment:**

None known.

**Section 05 - Fire fighting measures**

<b>Flashpoint:</b>	Not applicable
<b>Lower explosion limit:</b>	Not applicable
<b>Upper explosion limit:</b>	Not applicable
<b>Self ignition:</b>	> 310 °C Method: VDI 2263 (Grewer)
<b>Ignition temperature:</b>	Not applicable
<b>Extinguishing media:</b>	Water spray jet Foam

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### Hazardous combustion products:

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

**Minimum ignition energy :** not tested.

## Section 06 - Accidental release measures

### Steps to be taken in case of spill or leak:

Information regarding Safe handling, see chapter 7.  
For personal protection see section 8.  
Information regarding Waste Disposal, see chapter 13.  
Sweep up or shovel into disposal containers using compatible equipment. Wash the spill area. Wear prescribed protective gear.

## Section 07 - Handling and storage

### Advice on safe handling:

With Local Exhaust Ventilation  
Avoid dust formation.  
Avoid dust accumulation in enclosed space.

### Further info on storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.

## Section 08 - Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored.

**Respiratory protection:** A dust mask is recommended when handling large quantities.

**Hand protection:** Rubber or plastic gloves

**Eye protection:** Safety glasses with side-shields

**Other protective equipment:** not determined

## Section 09 - Physical and chemical properties

**Form:** solid  
**Color:** white  
**Odor:** characteristic  
**Odor limit:** not tested.  
**pH:** approx. 11.5 (20 °C, 50 g/l)  
Method: DIN 19268  
**Solubility in water:** approx. 690 g/l (22 °C)  
**Soluble in ... :** fat  
not tested.  
**Density:** not tested.  
**Melting point :** approx. 260 °C

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<b>Boiling point :</b>	Not applicable
<b>Evaporation number:</b>	Not applicable
<b>Vapor pressure:</b>	not tested.
<b>Bulk density:</b>	941 kg/m <sup>3</sup> Method: DIN 53466
<b>Relative vapor density:</b>	Not applicable
<b>Partitioning coef. octanol/water:</b>	Not applicable
<b>Viscosity / (dynamic):</b>	Not applicable
<b>Viscosity / (kinematic):</b>	not tested.

**Section 10 - Stability and reactivity**

<b>Thermal decomposition:</b>	> 250 °C
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	
<b>Hazardous Polymerization:</b>	Conditions to avoid: Stable
<b>Incompatibility with (Conditions to avoid) :</b>	Acidic materials.
<b>Hazardous decomposition products</b>	When handled and stored appropriately, no dangerous decomposition products are known

**Section 11 - Toxicological information**

<b>Acute oral toxicity:</b>	LD50 > 2,000 mg/kg (Mouse) Source: literature Information refers to the main component.
<b>Acute inhalation toxicity:</b>	not tested.
<b>Acute dermal toxicity:</b>	not tested.
<b>Skin irritation:</b>	No skin irritation (Rabbit) Method: OECD Test Guideline 404
<b>Eye irritation:</b>	No eye irritation (rabbit eye) Method: OECD Test Guideline 405
<b>Sensitization:</b>	not tested.

**Section 12 - Ecological information**

<b>Product information:</b>	
<b>Biodegradation:</b>	93 % (28 d) Method: OECD Test Guideline 301B

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<b>Fish toxicity:</b>	LC50 8,226 mg/l (96 h, Danio rerio (zebra fish)) Method: OECD Test Guideline 203
<b>Daphnia toxicity:</b>	> 1,000 mg/l (48 h, Daphnia magna (Water flea)) Method: OECD Test Guideline 202
<b>Algae toxicity:</b>	EC50 > 1,000 mg/l (72 h, Desmodesmus subspicatus (green algae)) Method: OECD Test Guideline 201
<b>Bacteria toxicity:</b>	EC50 6,165 mg/l (Pseudomonas putida) Method: ISO/DIS 10712.2 (Ref 3)
<b>Chemical oxygen demand (COD):</b>	0.240 kg/kg Method: DIN 38409-H-41
<b>Biological oxygen demand (BOD):</b>	0.016 kg/kg Method: DIN 38409-H51

**Remarks:**  
no data available

**Component information:**

Disodium metasilicate ( 6834-92-0 )

<b>Biodegradation:</b>	Not applicable for inorganic compound.
<b>Fish toxicity:</b>	LC50 2,320 mg/l (96 h, Gambusia affinis (Mosquito fish)) Method: Other Source: literature  LC50 210 mg/l (96 h, Brachydanio rerio (zebrafish)) Method: ISO 7346/1 Source: literature
<b>Daphnia toxicity:</b>	EC50 1,700 mg/l (48 h, Daphnia magna (Water flea)) Method: OECD 202 / ISO 6341 / EEC 84/449/V, C2 Source: literature By analogy with a product of similar composition
<b>Algae toxicity:</b>	EC50 (Growth rate) > 345.4 mg/l (72 h, Desmodesmus subspicatus (green algae)) Method: DIN 38412 Source: literature By analogy with a product of similar composition
<b>Bacteria toxicity:</b>	EC50 > 100 mg/l (3 h, activated sludge, domestic) Method: OECD Test Guideline 209 Source: literature

**Remarks:**  
Do not allow to enter ground water, waterways or waste water.

**Section 13 - Disposal considerations**

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**Waste disposal information:**

Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.  
Can be landfilled or incinerated, when in compliance with local regulations.

**Section 14 - Transport information**

<b>TDG</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

**Section 15 - Regulatory information**

**Registration status**

DSL:	yes
NDSL:	no

All components of the product are listed on the DSL/Canada.

**CEPA**

Listed as toxic substance:	Not listed
Listed as priority substance:	Not listed

**NPRI**

Not listed

**TSCA Status:**

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

**FDA:**

This product is not registered with the FDA.

**Section 16 - Other information**

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The information contained on this MSDS is to the best of our knowledge an accurate summary of the data available as of the date of preparation. Clariant (Canada) Inc. is not liable for the application or use of this information in situations beyond its control or outside the normal and expected use of its product. Clariant (Canada) Inc. assumes no responsibility for damage or injury from the use of the product described herein.