



# SAFETY DATA SHEET

Issue Date: 20-Jul-2021

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Version 1.01

## 1. Identification

### Product identifier

Product Name: KF50+ De-Icer

### Other means of identification

Product Code: KF-50

### Recommended use of the chemical and restrictions on use

Recommended Use: Industrial, Manufacturing or Laboratory use.

Restrictions on Use: None known

Details of the supplier of the safety data sheet: Reinders  
W227 N6225 Sussex Rd.  
Sussex, WI 53089  
(800) 785-3301

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Signal word: None

### Hazard statements:

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Unknown Acute toxicity: Not applicable

### Other Information

Not applicable

## 3. Composition/information on ingredients

Chemical name	CAS No	Weight-%
Potassium Formate	590-29-4	48-52
Osha non-hazardous	OSHA-NONHAZ	<1
Water	7732-18-5	Balance

Any concentration shown as a range is due to batch variation or the exact percentage has been withheld as a trade secret.

#### 4. First-aid measures

##### Description of first aid measures

Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Ingestion	Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

##### Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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##### Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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#### 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Cool containers with flooding quantities of water until well after fire is out.
Hazardous combustion products	Carbon oxides. Potassium Oxides.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
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##### Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.
Methods for cleaning up	Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

#### 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** Strong oxidizing agents, strong acids, and strong bases. Zinc.

**Packaging materials** Suggested: stainless steel.

**8. Exposure controls/personal protection****Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

**Physical State:** Liquid  
**Appearance:** Clear  
**Color:** Colorless  
**Odor:** No information available  
**Odor Threshold:** No information available

**pH:**

**pH Range:** 7.5-9.5 (Neat)  
**Salt Out Point:** No information available  
**Melting Point/Freezing Point:** No information available  
**Boiling Point/Boiling Range:** No information available  
**Flash Point:** No information available  
**Evaporation Rate (BuAc=1):** No information available  
**Flammability (solid, gas):** No information available  
**Flammability Limits in Air:** No information available  
**Vapor Pressure (mm Hg):** No information available  
**Vapor density (Air =1):** No information available  
**Specific Gravity (H<sub>2</sub>O=1):** 1.351  
**Water Solubility:** No information available  
**Solubility(ies):** No information available  
**Partition Coefficient (n-octanol/water):** No information available  
**Autoignition Temperature:** No information available

Decomposition Temperature: No information available  
 Kinematic Viscosity: No information available  
 Dynamic Viscosity: No information available

**Other information**

Explosive properties: No information available  
 Oxidizing properties: No information available  
 Molecular Weight: N/A

## 10. Stability and reactivity

Reactivity: No information available.  
 Chemical stability: Hygroscopic.  
 Possibility of hazardous reactions: None under normal processing.  
 Conditions to avoid: Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.  
 Incompatible Materials: Strong oxidizing agents, strong acids, and strong bases. Zinc.  
 Hazardous decomposition products: Carbon oxides. Potassium Oxides.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

Inhalation: Specific test data for the substance or mixture is not available.  
 Eye contact: Specific test data for the substance or mixture is not available.  
 Skin contact: Specific test data for the substance or mixture is not available.  
 Ingestion: Specific test data for the substance or mixture is not available.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

### Numerical measures of toxicity

#### Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 10,576.92 mg/kg

#### Component Information

Chemical name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Potassium Formate 590-29-4	5500 mg/kg (mouse)	-	-
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

## 12. Ecological information

<b>Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	There is no data for this product.
<b>Mobility:</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

## 13. Disposal considerations

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local, state, and national regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

### DOT

**Description** Not DOT Regulated

## 15. Regulatory information

### International Inventories

Chemical name	TSCA	AICS	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Potassium Formate 590-29-4	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	-
Water 7732-18-5	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**AICS** - Australian Inventory of Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 and later calendar years will need to be consistent with updated hazard classifications.

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### Clean Water Act (CWA)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### OSHA - Process Safety Management - Highly Hazardous Chemicals

This product does not contain any substances regulated under Process Safety Management (29 CFR 1910.119).

#### Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS)

This product does not contain any substances regulated under the Chemical Facility Anti-Terrorism Standards (6 CFR 27).

## **16. Other information**

<b>Prepared By:</b>	HSE Department
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<b>Revision Note:</b>	SDS sections updated. 9.

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**