



# SAFETY DATA SHEET

Product #: See Section 1

Name of Product:

Revision Date: April 3, 2020

**IceCare**

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IceCare  
SYNONYMS: Formic acid sodium salt; Icecare® SF Solid Deicer  
PRODUCT CODES: I000165; I000166; I000167; F000429; F000430; F000431  
DISTRIBUTER: NACHURS ALPINE SOLUTIONS  
421 Leader Street, Marion, OH 43302, United States  
PHONE: 800-622-4877 (USA)  
800-265-2268 (CANADA)  
EMERGENCY PHONE: CHEMTREC: 1-800-424-9300 (USA)  
CANUTEC: 1-613-996-6666 (CANADA)  
QM: 1-887-387-7745 (CANADA)  
SUPPLIER: MKS Marmara Entegre Kimya San. A.Ş.  
Ata Mah. Sanayi Cad. No:70  
16600 Gemlik - Turkey  
T +90 224 519 03 00 - F +90 224 519 03 04  
[mks.gemlik@mksmarmara.com](mailto:mks.gemlik@mksmarmara.com) - [www.mksmarmara.com](http://www.mksmarmara.com)  
CHEMICAL NAME: Sodium Formate  
CHEMICAL FAMILY: Formic Acid, Sodium Salt  
CHEMICAL FORMULA: HCOONa  
PRODUCT USE: Solid Deicer

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Classification, Label elements:

Classification (GHS-CA)

Not classified

GHS-CA labeling

No labeling applicable

Other Hazards

None under normal conditions

Unknown Acute Toxicity (GHS-CA)

No data available

SECTION 2 NOTE:

CAUTION: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS-CA)
Sodium Formate (Main constituent)	Formic acid sodium salt	(CAS-No.) 141-53-7	≥ 98	Not classified
Proprietary Inhibitors	-	-	Remainder (< 1 each)	Not classified

# SAFETY DATA SHEET

Product #: See Section 1

Name of Product: **IceCare**

Revision Date: April 3, 2020

---

## SECTION 4: FIRST AID MEASURES

---

Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.

First-aid measures after eye contact: 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.

First-aid measures after ingestion: Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.

Most important symptoms and effects (acute and delayed): No additional information

Immediate medical attention and special treatment, if necessary: Treat symptomatically

---

## SECTION 5: FIRE-FIGHTING MEASURES

---

Suitable extinguishing media: Dry chemical, CO<sub>2</sub>, or water spray or regular foam. Water spray. Dry powder. Foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

Special hazards arising from the hazardous product: No additional information available.

Special protective equipment and precautions for fire-fighters:  
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

Personal precautions, protective equipment and emergency procedures: No additional information available.

Methods for cleaning up: Mechanically recover the product. Avoid dust formation.

Other information: Do not empty into drains; dispose of this material and its container in a safe way. Dispose of materials or solid residues at an authorized site.

---

## SECTION 7: HANDLING AND STORAGE

---

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Wear recommended personal protective equipment. Protect from moisture.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage conditions: Keep container tightly closed. Keep in a cool, well-ventilated place. Store in dry protected location to prevent any moisture contact. Store in a well-ventilated place. Keep cool.

# SAFETY DATA SHEET

Product #: See Section 1

Name of Product: **IceCare**

Revision Date: April 3, 2020

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

Control parameters: No additional information available.

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations. Do not breathe dust. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

Individual protection measures/Personal protective equipment:

### Hand protection:

Wear protective gloves. Use neoprene or rubber gloves

### Eye protection:

Safety glasses. Where excessive dust may result, wear goggles

### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Dust production: dust mask with filter type P2

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

Physical state : Solid

Appearance : Granule.

Colour : White

Odour : Odourless

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1)  
rate (ether=1) : No data available Relative evaporation  
rate (ether=1) : No data available

Molecular mass : 68.01 g/mol

Melting point : 258 °C

Freezing point : Not applicable

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : < 411 °C

Flammability (solid, gas) : Non flammable.

Vapour pressure : No data available

Vapour pressure at 50 °C : No data available

Relative density : Not applicable

Solubility : Soluble in water.

# SAFETY DATA SHEET

Product #: See Section 1

Name of Product: **IceCare**

Revision Date: April 3, 2020

Water: > 1000 g/l (20 °C)  
Log Pow : < 1.8  
Log Kow : < -2.3 (pH:7 & 23 °C)  
Explosive limits : Not applicable  
Bulk density : 900 - 950 kg/m<sup>3</sup> (25 °C)

## SECTION 10: STABILITY AND REACTIVITY

Reactivity : Stable under recommended handling and storage conditions.  
Chemical stability : Stable under recommended handling and storage conditions.  
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use. No dangerous reactions known.  
Conditions to avoid : Hygroscopic product. Protect from moisture.  
Incompatible materials : Strong oxidizing agents. Strong acids.  
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity : Not classified

Sodium formate (141-53-7)	
LD50 oral rat	11200 mg/kg (OECD 401)
LD50 dermal rat	> 2000 mg/kg (OECD 402)

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Not classified  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Sodium formate (141-53-7)	
NOAEL (chronic, oral, animal/male, 2 years)	2000 mg/kg bodyweight (OECD 453)

Reproductive toxicity : Not classified  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

# SAFETY DATA SHEET

Product #: See Section 1

Name of Product: **IceCare**

Revision Date: April 3, 2020

---

## SECTION 12: ECOLOGICAL INFORMATION

---

Toxicity  
Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Sodium formate (141-53-7)	
LC50 fish	> 1000 mg/l ( 96h - Oncorhynchus mykiss)
EC50 daphnia	> 1000 (48h - Daphnia magna)
NOEC chronic crustacea	> 100 mg/l (21d - Daphnia magna - OECD 211)

### Persistence and degradability

Sodium formate (141-53-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	86 % (28d - OECD 306)

### Bioaccumulative potential

Sodium formate (141-53-7)	
Bioaccumulative potential	There is no bioaccumulation.
Log Pow	< 1.8
Log Kow	< -2.3 (pH:7 & 23 °C)

Motility in soil: No additional information available

Other adverse effects: No additional information available

---

## SECTION 13: DISPOSAL CONSIDERATIONS

---

Waste treatment methods : Non-hazardous waste. Dispose in a safe manner in accordance with local/national regulations.  
Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

---

## SECTION 14: TRANSPORT INFORMATION

---

### U.S. DEPARTMENT OF TRANSPORTATION:

PROPER SHIPPING NAME: IceCare (Sodium Formate)  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENT: N/A

### WATER TRANSPORTATION:

PROPER SHIPPING NAME: IceCare (Sodium Formate)  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A  
LABEL STATEMENTS: N/A

### AIR TRANSPORTATION:

PROPER SHIPPING NAME: IceCare (Sodium Formate)  
HAZARD CLASS: N/A  
ID NUMBER: N/A  
PACKING GROUP: N/A

# SAFETY DATA SHEET

Product #: See Section 1

Name of Product: **IceCare**

Revision Date: April 3, 2020

LABEL STATEMENTS: N/A

## SECTION 15: REGULATORY INFORMATION

### Sodium formate (141-53-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## SECTION 16: OTHER INFORMATION

LATEST REVISION: 3 APRIL 2020

**PREPARATION INFORMATION:** MKS SDS for ICECARE SF SOLID DEICER DATE OF ISSUE: 11/14/2018 VERSION: 0

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

### DATA SOURCES

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. This document has been prepared in accordance with the SDS requirements of the WHMIS Controlled Products Regulation.

**DISCLAIMER:** The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and NACHURS ALPINE SOLUTIONS will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

"NASi" is a trademark of Nachurs Alpine Solutions Corp.