

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form	: Substance
Trade name	: Provifrost NF
Chemical name	: sodium formate
EC/EINECS/ELINS	: 205-488-0
CAS	: 141-53-7
REACH registration No	: 01-2119486468-21
Formula	: CH <sub>02</sub> Na
Synonyms	: Formic acid, sodium salt

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

No additional information available

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Proviron Industries N.V.  
Zone 2 - G. Gilliotstraat 60  
B-2620 Hemiksem - Belgium  
T +32 3 870 88 20 - F +32 3 877 23 33  
[info@proviron.com](mailto:info@proviron.com) - [www.proviron.com](http://www.proviron.com)

### 1.4. Emergency telephone number

Emergency number : +32 3 870 88 20 (08:00-16:30 GMT+1)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

Not classified

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]

No labelling required

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type	: Mono-constituent
Name	: Sodium formate
CAS	: 141-53-7
EC/EINECS/ELINS	: 205-488-0

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Sodium formate	(CAS) 141-53-7 (EC/EINECS/ELINS) 205-488-0 (REACH-no) 01-2119486468-21	>= 97	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
Sodium formate	(CAS) 141-53-7 (EC/EINECS/ELINS) 205-488-0 (REACH-no) 01-2119486468-21	>= 97	Not classified

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. After contact with skin, wash immediately with plenty of water and soap. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention.

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

Symptoms/injuries after inhalation	: Irritation of the respiratory tract.
Symptoms/injuries after skin contact	: Slightly irritating to skin.
Symptoms/injuries after eye contact	: mild irritant.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol-resistant foam.
Unsuitable extinguishing media	: Strong water jet.

### 5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire	: On burning: release of harmful/irritant gases/vapours.
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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray/stream to protect personnel and to cool endangered containers.
Protection during firefighting	: Wear fire/flame resistant/retardant clothing. In case of fire: Wear self-contained breathing apparatus.
Other information	: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment	: See protective measures under point 7 and 8.
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#### 6.1.2. For emergency responders

Protective equipment	: See protective measures under point 7 and 8.
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### 6.2. Environmental precautions

Do not empty into drains or the aquatic environment.

### 6.3. Methods and material for containment and cleaning up

For containment	: Collect in closed containers for disposal.
Methods for cleaning up	: Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. After cleaning, flush away traces with water.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe dust. Avoid generation of dust. Provide for sufficient ventilation and punctiform suction at critical points.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool dry place. Protect from moisture.  
Prohibitions on mixed storage : (strong) acids. Oxidizing agents, strong.  
Storage area : Keep container in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : Rubber gloves. (EN 374).  
Eye protection : Tightly sealed safety glasses. (EN 166).  
Skin and body protection : Avoid contact with skin, eye and clothing. In case of dust production: dustproof clothing.  
Respiratory protection : Filter respirator (full mask or mouth-piece) with filter: P1.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Appearance : Granulate.  
Molecular mass : 68,01 g/mol  
Colour : white.  
Odour : odourless.  
Odour threshold : No data available  
pH : No data available  
pH solution : 9,5-12,5 (15 % solution)  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : 258 °C (OECD 102)  
Freezing point : No data available  
Boiling point : > 411 °C (101,3 kPa)  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure :  
No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Bulk density : 0,9-0,95 kg/l (25°C)  
Solubility : Material highly soluble in water.  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : No data available.  
Oxidising properties : No data available.  
Explosive limits : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

On burning: release of harmful/irritant gases/vapours.

### 10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Avoid generation of dust. In the case of the formation of dust. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Provifrost NF (141-53-7)	
LD50, acute, oral, mouse	11200 mg/kg bw
Sodium formate (141-53-7)	
LD50 dermal rat	> 2000 mg/kg bodyweight (24h)
LC50 inhalation rat	> 0,67 ppm/4h
LD50, acute, oral, mouse	11200 mg/kg bw

Skin corrosion/irritation : Not classified  
pH: No data available

Serious eye damage/irritation : Not classified  
pH: No data available

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Sodium formate (141-53-7)	
LC50 fishes 1	5250 mg/l (Pimephales promelas, 96 h)
EC50 Daphnia 1	4125 mg/l (48 h)

### 12.2. Persistence and degradability

Sodium formate (141-53-7)	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Regional legislation (waste) : Remove according to the regulations.  
Sewage disposal recommendations : Ensure all waste water is collected and treated via a waste water treatment plant.  
Waste disposal recommendations : Collect in closed containers for disposal.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

Not applicable

### 14.3. Transport hazard class(es)

Not applicable

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

- Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

No additional information available

#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

#### 14.6.4. Inland waterway transport

Carriage prohibited (ADN) : No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions  
Provifrost NF is not on the REACH Candidate List  
Contains no substance on the REACH candidate list  
Provifrost NF is not on the REACH Annex XIV List  
Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : 1 - low hazard to waters

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

**Disclaimer:**

*The purpose of this safety data sheet is to provide information about the safety, health and environmental aspects of the product concerned. The information in this safety data sheet is based on current expertise. Proviron provides this information in good faith and to the best of its ability.*

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