

# Sodium Formate Deicer



## Description

Sodium Formate Deicer is a solid runway, taxiway and parking apron de-icer based on sodium formate. It is an easy applicable, fully biodegradable and environmentally friendly de-/anti-icing product combined with unique formulation of corrosion inhibitors. The de-icer is tailored to completely fulfil SAE AMS 1431 standard requirements and is regularly revised/retested according the latest version of the standard at SMI Inc. laboratory. It performs by decreasing the freezing temperature of water and creates protection from snow, ice, freezing rain and slush.

## Performance

- ⇒ Sodium Formate Deicer can be applied directly onto the pavement surface where it is desirable both preventive and/or reactive treatment.
- ⇒ Product does not contain Triazoles or Nonylphenols

## Sales specification

- |                     |                                      |
|---------------------|--------------------------------------|
| ⇒ Sodium Formate, % | Min 97                               |
| ⇒ pH value          | 11.0-12.0                            |
| ⇒ Appearance        | White, Irregular Granules            |
| ⇒ Granular size, mm | Max 2.0% < 0.5 mm<br>Max 2.0% > 5 mm |

## Certification

- ⇒ Sodium Formate Deicer is certified and approved by the latest version of SAE AMS 1431 standard at SMI Inc
- ⇒ LFV tests of impact for asphalt/concrete pavements are done at VTI Institute (Sweden)
- ⇒ AIR tests done at LIMA-AMIL (Canada) and SMI Inc. (USA)
- ⇒ Tests of impact for soil, water and waste water are done following particular local requirements

## Storage & Handling

- ⇒ Sodium Formate Deicer is prepared and delivered for final usage.
- ⇒ Offered in 1000 kg/500 kg Big Bags
- ⇒ It is highly recommend to store Sodium Formate Deicer in its original package on a pallet in a cool, dry and well-ventilated place because of its high absorption of water. Keep packages tightly closed. For safety, it is also highly recommended to store Sodium Formate Deicer away from extreme heat and away from strong oxidizing agents.
- ⇒ When storing Sodium Formate Deicer under conditions and requirements presented above – the shelf-life of the product is minimum 24 months from its date of manufacture.

## Bio-degradability & Aquatic toxicity

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| ⇒ BOD <sub>5</sub>                | 0.13 kg O <sub>2</sub> /kg solid |
| ⇒ COD <sub>5</sub>                | 0.27 kg O <sub>2</sub> /kg solid |
| ⇒ Acute toxicity to Daphnia Magna |                                  |
| 48 hours EC50:                    | > 1000 mg/l                      |
| ⇒ Acute toxicity to fish          |                                  |
| 96 hours LC50:                    | > 2000 mg/l                      |

CAS no.: 141-53-7  
EC (EINECS) no.: 205-488-0  
HS no.: 2915 12