

NEVASTANE ANTIFREEZE



Nonfood Compounds
Program Listed HT1

Food Industry



Multipurpose Antifreeze based on MPG for incidental food contact.

APPLICATIONS

- **NEVASTANE ANTIFREEZE**, when mixed with water, is a coolant specially designed for cooling circuits in the food industry: drinks, ice creams and frozen food processing.
- **NEVASTANE ANTIFREEZE** should be diluted with clear water before use.
- The dilution is determined by the cooling system requirements. However, to ensure good corrosion protection, it is recommended to use at least 30 vol.% of **NEVASTANE ANTIFREEZE** in the coolant solution.

| | | | | | | |
|--|------|------|------|------|------|------|
| Dilution NEVASTANE ANTIFREEZE , vol % | 31,6 | 37,3 | 42,0 | 46,0 | 49,3 | 52,2 |
| Freezing point of the coolant, °C | -15 | -20 | -25 | -30 | -35 | -40 |

Method: ASTM D1177 - Above characteristics are mean values given as an information.

SPECIFICATIONS

- **NEVASTANE ANTIFREEZE**, mixed with the appropriate amount of water, is a coolant based on mono propylene glycol and additives complying with FDA, 21 CFR, 178.3570.
- **NEVASTANE ANTIFREEZE** is NSF HT1 registered No 139291

ADVANTAGES

- **NEVASTANE ANTIFREEZE** is recommended for use where incidental contact with food may occur. Using maintenance lubricants which have been registered HT1 with NSF minimizes your critical control points as required by HACCP.
- **NEVASTANE ANTIFREEZE** provides very high protection against freezing and corrosion in numerous applications due to its unique selection of additives.
- **NEVASTANE ANTIFREEZE** protects the metals and alloys in the equipments against all forms of corrosion.
NEVASTANE ANTIFREEZE specially provides excellent protection on copper alloys often encountered in food industries.

| TYPICAL CHARACTERISTICS | METHODS | UNITS | NEVASTANE ANTIFREEZE |
|-------------------------|------------|-------------------|------------------------------------|
| Appearance | Visual | - | Slightly hazy and colorless liquid |
| Density @ 20°C | ASTM D1122 | g/cm ³ | 1.051 |
| pH | ASTM D1287 | - | 9.9 |
| Reserve Alkalinity | ASTM D1121 | ml HCl 0.1N | 11.7 |

Above characteristics are mean values given as an information.

Recommendations:

- Store the product at ambient temperatures
- Minimize the periods of exposure to temperatures above 35°C
- Use new containers (not recycled ones) for the storage/mixing installation
- **Shelf life: 5 years** from date of manufacture (unopened)

See next page for more information about utilisation

TOTAL LUBRIFIANTS
INDUSTRIE

12-10-2016 (supersedes 19-09-2014)

NEVASTANE ANTIFREEZE

1/2





TOTAL

UTILISATION

Facilities that contain deposits arising from construction (new installations) or corrosion (facilities already in service) must be thoroughly flushed.

Procedure:

1. Circulate the used fluid for at least 1 hour to put any deposit in suspension.
2. Empty the water circuits completely (flush out any low points or retention zones).
3. Check the heating tubes and the expansion tank and clean out if any deposit is found.
4. Rinse with pure water (at least twice), circulating water throughout the circuit.
Empty and check that the filters are not blocked by deposits.
5. Drain the circuit completely.
6. Refill with **NEVASTANE ANTRIFREEZE** to the concentration defined for the particular facility (30 % minimum).

TOTAL LUBRIFIANTS INDUSTRIE

12-10-2016 (supersedes 19-09-2014)

NEVASTANE ANTIFREEZE

2/2



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.