

Identificazione: Sc 7.3.35 rev.01

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006

NEVISYLON BLUE 400

1. Identification of the substance/preparation and company/undertaking

Product name: NEVISYLON BLUE 400

Recommended use: Release agent for injection molded plastic products

Supplier: Nevicolor S.p.A., Via Maso n.27
42045 Luzzara (RE)
Telefono: +39 (0) 522 976421 Fax: +39 (0)522 976569
E-mail: lab@nevicolor.it

Emergency telephone number: +39 (0)2 66101029 (Centro Antiveleni di Milano)

2. Hazards identification

Classification: not classified.

Hazards: Inhalation of massive doses of aerosol may cause asphyxia. The gas jets may cause skin cold burns. The container is under pressure and must be kept at temperatures below 50°C to avoid explosion.

3. Composition/information on ingredients

1,1,1,2 - tetrafluoroethane (HFC 134a; CAS: 811-97-2 EC: 212-377-0);	conc. >90% class. - ; R-phrases: -
Dimethylether (CAS: 115-10-6 EC: 204-065-8);	conc. 3% - 5%; class. F+; R-phrases: R12

Note: the complete text of the R phrases is reported in section 15

4. First-aid measures

In case of exposure to the aerosol, the following actions must be taken:

Eye contact: rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

Skin contact: wash off immediately with plenty of hot water. In case of cold burns, call a physician immediately.

Inhalation: move to fresh air. If symptoms persist, call a physician.

Ingestion: rinse mouth. Do not induce vomiting. Call a physician immediately.

5. Fire-fighting measures

Suitable extinguishing media: CO₂, foam, chemical powder, water. In case of fire around the aerosol cans, use water spray to cool down overheated cans to avoid explosion.

Hazardous decomposition products: carbon oxides and other toxic products.

Protection of fire-fighters: Wear suitable protective clothing. Self-contained breathing apparatus.

6. Accidental release measures

Keep away from sources of ignition. No smoking.

Personal precautions: wear personal protective equipment

Environmental precautions: Keep away from drains.

Clean-up Methods: Soak up with liquid binder (sand, kieselguhr, acid binder, universal binder). Ensure adequate ventilation.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling: do not pierce or heat aerosol cans. Do not take valve off when cans are empty. Do not breathe spray. Use with adequate ventilation. During work, do not eat, drink or smoke.

Storage: Store in a ventilated location. Do not keep at temperature above 50°C. Avoid direct exposure to sun light. Keep away from all heat and ignition sources. Keep containers in safe location and position to avoid mechanical shock (risk of explosion).

Note: See section 10 for stability and reactivity

8. Exposure controls/personal protection

Occupational exposure limits (ACGIH):

1,1,1,2-tetrafluoroethane TLV-TWA: 1000 ppm

Dimethylether TLV-TWA: 1000 ppm

Respiratory protection: in case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: use thermally insulated gloves for low temperatures.

Eye protection: tightly fitting safety goggles.

Skin and body protection: protective suit.

Hygiene measures: keep away from food, drink and animal feedingstuffs. Take off contaminated clothing and shoes immediately. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes. Do not breathe vapour. Do not breathe spray.

9. Physical and chemical properties

Physical state:	Transparent liquid under pressure (aerosol)
Odour:	odourless
Melting temperature:	approx. -100°C (propellant)
Boiling temperature:	approx. -25°C (propellant)
Ignition temperature:	-
Explosive properties:	-
Bulk density	-

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Solubility in water:	Insoluble
Pressure inside container:	5.4 bar at 20 °C (propellant)
Relative density:	1.21 kg/l (propellant)

10. Stability and reactivity

Stability: Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid: Do not keep at temperature above 50°C. Avoid direct exposure to sun light. Keep away from all heat and ignition sources.

Materials to avoid: Strong oxidising agents that may damage metallicans. Avoid contact to comburent materials.

Hazardous decomposition products: carbon oxides, fluoridric acid, chloridric acid and other toxic products.

11. Toxicological information

1,1,1,2-tetrafluorethane

Skin: slightly irritant, contact with liquid may cause cold burns

Eyes: slightly irritant, contact with liquid may cause cold burns

Acute toxicity: if inhaled at high concentration may be harmful to the central nervous system and to the circulatory system.

Chronic toxicity: NOEL = 10,000 ppm

Cardiac sensitivity: NOEL = 50,000 ppm

Liquid Silicone (viscosity 300-1000-12500 cSt):

Acute toxicity: LD50 (oral, rat) > 5000 mg/Kg

Skin: not irritant (rabbit, 24h)

Eye: slightly irritant (rabbit)

According to available literature, polydimethylsiloxanes are physiologically inert; contact with eyes may cause temporary foggy sight due to a thin layer of oil on eye bulb.

Dimethyether

Acute toxicity (skin, oral) : n.a.

Acute toxicity (inhalation): LC50 > 5 mg/l

12. Ecological information

Use according to good working practices. Do not allow material to contaminate ground water system.

1,1,1,2 - tetrafluorethane

Toxicity for fish: CL50 / 96 h / *Oncorhynchus mykiss* (Trotta iridea) = 450 mg/l

Toxicity in water: CE50/ 48 h / *Dafnia* = 980 mg/l

Global warming potential (GWP): 1300

13. Disposal considerations

Waste key for the unused product: 160504 gases in pressure containers (including halons) containing dangerous substances

Product: dispose of in accordance with local regulations.

Contaminated packaging: dispose of as unused product.

14. Transport information

ADR:	2/-
Classification code (ADR):	5A
LQ:	2
UN number:	UN 1950 AEROSOLS
ICAO/IATA:	2.2/-/- Aerosols, flammable
IMDG/IMO:	2.2/- Aerosols
EmS:	F-D, S-U
Marine pollutant:	N.A.

15. Regulatory information

Risk phrases:	-
Safety phrases:	S9 Keep container in a well-ventilated place; S23 Do not breathe spray

Do not keep at temperature above 50°C. Avoid direct exposure to sun light. Keep away from all heat and ignition sources

16. Other information

Text of R phrases mentioned in Section 3

R12 Extremely flammable

Sources of key data:

- Safety Data Sheets of manufacturers
- Regulation (EC) No. 1907/2006
- Directive 67/548/EC and updates
- Directive 99/45/EC and updates

Notice to reader: The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality.

The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications. The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.