

Identificazione: Sc 7.3.35 rev.01

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006

NEVISYLON RED 500

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

Product name: NEVISYLON RED 500

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: Risk symbols: F+ Extremely flammable; Risk phrases: R12 Extremely flammable.

The propellant is an extremely flammable gas (flammability temperature below 0°C and boiling point below or equal to 35°C). Inhalation of massive doses of aerosol may cause asphyxia. The container is under pressure and must be kept at temperatures below 50°C to avoid explosion.

3. Composition/information on ingredients

The aerosol contains the following substances classified as dangerous according to Directive 67/548/EC or with occupational exposure:

Butane (CAS: 106-97-8 EC: 203-448-7);	conc. 40% - 50%	F+; R12
Isobutane (CAS: 75-28-5 EC: 200-857-2);	conc. 25% - 30%	F+; R12;
Propane (CAS: 74-98-6 EC: 200-827-9);	conc. 20% - 25%	F+; R12;
Ethane (CAS: 74-84-0 EC: 200-814-8);	conc. <0,1%	F+; 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 soap and plenty of water. If symptoms persist, call a physician.

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. High volume water jet shall not be used for safety reason

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):

Butane TLV-TWA: 1000 ppm

Isobutane TLV-TWA: 1000 ppm

Propano TLV-TWA: 1000 ppm

Ethane TLV-TWA: 1000 ppm

Respiratory protection: in case of insufficient ventilation, wear suitable respiratory equipment. respirator with a filter.

Hand protection: general advice: neoprene gloves, rubber gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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:	< -100°C (propellant)
Boiling temperature:	> -42 °C (propellant)
Ignition temperature:	< -80 °C (propellant)
Explosive properties:	min 1.8% - max 9.5% (propellant)
Bulk density	0.6-0.7 g/cm ³
Solubility in water:	Insoluble
Pressure inside container:	3.2 bar at 20 °C (propellant)
Relative density:	0,56 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 and other toxic products.

11. Toxicological information

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

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

Skin irritation: not irritant (rabbit, 24h)

Eye irritation: 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.

12. Ecological information

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

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):	5F
LQ:	2
UN number:	UN 1950 AEROSOLS
ICAO/IATA:	2.1/-/- Aerosols, flammable
IMDG/IMO:	2.1/- Aerosols
EmS:	F-D, S-U
Marine pollutant:	N.A.

15. Regulatory information

Classification and labelling:

F+



EXTREMELY FLAMMABLE

Risk phrases: R12 Extremely flammable.

Safety phrases: S9 Keep container in a well-ventilated place;
S16 Keep away from sources of ignition - No smoking;
S43 In case of fire use CO₂, foam, chemical powder, water. In case of fire around the aerosol cans, use water spray to cool down overheated cans to avoid explosion. High volume water jet shall not be used for safety reason.

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.