



# SAFETY DATA SHEET

## NOVAFLEX NL 30

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

**Product name** : NOVAFLEX NL 30  
**Code** : 160642  
**Product type** : Liquid.  
**Use of the substance/preparation** : Adhesive. Polyurethane liquid.  
**Manufacturer** : BOSTIK SA  
 LA DEFENSE 6  
 16/32 Rue Henri Regnault  
 92902 PARIS LA DEFENSE Cedex  
 FRANCE  
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**Emergency telephone number ORFILA** : + 33 (0) 1 45 42 59 59

### 2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : F; R11  
 Xi; R36/37/38  
 R42/43  
 R52/53  
**Physical/chemical hazards** : Highly flammable.  
**Human health hazards** : Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.  
**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/preparation** : Preparation  
**Nature of material** : Adhesive.

Ingredient name	CAS number	%	EC number	Classification
Naphtha (petroleum), hydrotreated light	64742-49-0	1 - 10	265-151-9	F; R11 [1] [2] Xn; R65 Xi; R38 R67 N; R51/53
Diphenylmethanediisocyanate	9016-87-9	1 - 10		Xn; R20 [1] Xi; R36/37/38 R42/43
<b>See section 16 for the full text of the R-phrases declared above</b>				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Occupational exposure limits, if available, are listed in section 8.

### 4. FIRST AID MEASURES

#### First-aid measures

- Inhalation** : Move exposed person to fresh air. Maintain an open airway. In the event of any complaints or symptoms, avoid further exposure. Get medical attention.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- Skin contact** : Get medical attention. Wash with soap and water. Continue to rinse for at least 10 minutes. In case of chemical burns, get medical attention as soon as possible. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : In a fire or if heated, a pressure increase will occur and the container may burst or explode. Runoff to sewer may create fire or explosion hazard.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides  
Dust and fumes
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Do not touch or walk through spilt material. Provide adequate ventilation. Shut off all ignition sources. No flares, smoking or flames in hazard area. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment (see section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Water polluting material.
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 6. ACCIDENTAL RELEASE MEASURES

- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, basements or confined areas. Absorb with an inert material and transfer the spilt material and absorbent to an appropriate waste disposal container. Contaminated absorbent material may pose the same hazard as the spilt product. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Do not reuse product container.

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store between the following temperatures:

### Packaging materials

- Recommended** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limit values

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Naphtha (petroleum), hydrotreated light	<b>EU OEL (Europe, 11/2004).</b> TWA: 1500 mg/m <sup>3</sup> 8 hour(s). Form: All forms STEL: 1000 mg/m <sup>3</sup> 15 minute(s).

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eye protection** : Goggles, face shield or other full-face protection should be worn if there is a risk of direct exposure to aerosols or splashes or when material is handled hot.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

#### Appearance

- Physical state** : Liquid. [Viscous liquid.]
- Colour** : Brown.
- Odour** : Characteristic.

### Important health, safety and environmental information

- Flash point** : Closed cup: -20°C (-4°F)
- Explosion limits** : Lower: 1%  
Upper: 6%
- Vapour pressure** : <110 kPa (<825 mm Hg)
- Solubility** : Insoluble in the following materials: cold water and hot water.
- Viscosity** : Kinematic (40°C): 35,7 cm<sup>2</sup>/s (3570 cSt)

## 10. STABILITY AND REACTIVITY

- Stability** : Stable under recommended storage and handling conditions (see section 7).
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight.
- Materials to avoid** : Highly reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### Potential acute health effects

- Inhalation** : Irritating to respiratory system. May cause sensitisation by inhalation.
- Ingestion** : Irritating to mouth, throat and stomach.
- Skin contact** : Irritating to skin. May cause sensitisation by skin contact.
- Eye contact** : Irritating to eyes.

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
diphenylmethanediisocyanate, isomeres and homologues	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-

- Conclusion/Summary** : Not available.

### Potential chronic health effects

#### Chronic toxicity

- Conclusion/Summary** : Not available.

#### Irritation/Corrosion

- Conclusion/Summary** : Not available.

#### Sensitiser

- Conclusion/Summary** : Not available.

#### Carcinogenicity

- Conclusion/Summary** : Not available.

#### Mutagenicity

- Conclusion/Summary** : Not available.

#### Teratogenicity

## 11. TOXICOLOGICAL INFORMATION

<b>Conclusion/Summary</b>	: Not available.
<b><u>Reproductive toxicity</u></b>	
<b>Conclusion/Summary</b>	: Not available.
<b>Chronic effects</b>	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b><u>Over-exposure signs/symptoms</u></b>	
<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
<b>Ingestion</b>	: No specific data.
<b>Skin</b>	: Adverse symptoms may include the following: irritation redness
<b>Eyes</b>	: Adverse symptoms may include the following: irritation watering redness

## 12. ECOLOGICAL INFORMATION


<b>Environmental effects</b>	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b><u>Aquatic ecotoxicity</u></b>	
<b>Conclusion/Summary</b>	: Not available.
<b><u>Biodegradability</u></b>	
<b>Conclusion/Summary</b>	: Not available.
<b>Other adverse effects</b>	: No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS




<b>Methods of disposal</b>	: Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
<b>Hazardous waste</b>	: The classification of the product may meet the criteria for a hazardous waste.

## 14. TRANSPORT INFORMATION

### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	1133	ADHESIVES, containing flammable liquid	3	III		<b><u>Hazard identification number</u></b> 33  <b><u>Limited quantity</u></b> LQ7 Special provision : 640H

**14. TRANSPORT INFORMATION**

<b>ADNR Class</b>	1133	ADHESIVES, containing flammable liquid	3	III		-
<b>IMDG Class</b>	1133	ADHESIVES, containing flammable liquid	3	III		<b>Emergency schedules (EmS)</b> F-E, S-D
<b>IATA Class</b>	1133	ADHESIVES, containing flammable liquid	3	III		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 60 L <b>Cargo Aircraft Only</b> Quantity limitation: 220 L

PG\* : Packing group

**15. REGULATORY INFORMATION**EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Highly flammable, Harmful

Risk phrases

- : R11- Highly flammable.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R42/43- May cause sensitisation by inhalation and skin contact.
- R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- : S9- Keep container in a well-ventilated place.
- S16- Keep away from sources of ignition - No smoking.
- S23- Do not breathe vapour.
- S33- Take precautionary measures against static discharges.
- S37- Wear suitable gloves.
- S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Contains

- : Diphenylmethanediisocyanate

Product use

- : Industrial applications.

Europe inventory

- : **Europe inventory:** Not determined.

Other EU regulations

- Additional warning phrases** : Contains isocyanates. See information supplied by the manufacturer. This information is provided by the present Safety Data Sheet.

**16. OTHER INFORMATION**

**Full text of R-phrases  
referred to in sections 2 and  
3 - Europe**

- : R11- Highly flammable.
- R20- Harmful by inhalation.
- R65- Harmful: may cause lung damage if swallowed.
- R38- Irritating to skin.
- R36/37/38- Irritating to eyes, respiratory system and skin.
- R42/43- May cause sensitisation by inhalation and skin contact.
- R67- Vapours may cause drowsiness and dizziness.
- R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 16. OTHER INFORMATION

**Full text of classifications referred to in sections 2 and 3 - Europe** : F - Highly flammable  
Xn - Harmful  
Xi - Irritant  
N - Dangerous for the environment

### History

**Date of printing** : 03/09/2009.  
**Date of issue/Date of revision** : 03/09/2009.  
**Date of previous issue** : No previous validation.  
**Version** : 1  
**Prepared by** : Not available.

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.