

Issued:  
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102002

To :  
COLORSPEC COATINGS INTERNATIONAL

1716 CHURCH STREET  
11741 HOLBROOK, NY  
U.S. America

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S A F E T Y   D A T A   S H E E T  
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1. Identification of the preparation and company  
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1.1 Identification of products

Product name                   LNB110  
product description            2 $\phi$  COMPONENTE POLIURETANICO

1.2 Identification of the preparation  
Second component/hardner/add it in to paint, vannishes  
and coating

1.3 Company identification

Name of company .....       IVM Chemicals S r l  
                                  International Development Division  
Address .....                 VIALE DELLA STAZIONE, 3  
                                  27020 PARONA  
                                  PAVIA    ITALY

Name and emergency telephone number for more information  
CARLO PORTA           -       0039 2 902793.1  
e-mail                 res\_cp\$virgilio it

1.4 Emergency telephone

The body responsible for receiving information relating to health are  
"Istituto superiore della sanit{" (ISS) in Rome.

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2. Hazards identification  
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Possible risk of harm to the unborn child

May cause sensitization by skin contact.

Highly flammable.

Vapours may cause drowsiness and dizziness.

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### 3. Composition and information on ingredients

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Contain N.67/548 - N#CAS	N#CE Symb. CE	Conc. -R- phrases
ALIPHATIC POLYISOCYANATE 28182-81-2	500-060-2 Xi	10 - 20 % R43
POLYISOCYANATE HDI/TDI 63368-95-6	Xi	20 - 30 % R43
N-BUTYL ACETATE 607-025-00-1 123-86-4	204-658-1	30 - 50 % R10-66-67
TOLUENE 601-021-00-3 108-88-3	203-625-9 F-Xn	5 - 10 % R11-38-48/20-63-65-67
BUTANONE 606-002-00-3 78-93-3	201-159-0 F - Xi	5 - 10 % R 11 - 36 - 66 - 67

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### 4. First aid measures

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#### General:

In all cases of doubt, or when symptoms persist, seek medical attention  
Never give anything by mouth to an unconscious person.

#### Inhalation:

Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advise.

**Eye contact:**

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

**skin contact:**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use appropriate skin cleaner. Do NOT use solvents or thinners.

**Ingestion:**

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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**5. Fire fighting measures**

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**Extinguishing media**

Recommended : alcohol resistant foam, CO, powder, water spray/mist.  
Not to be used : water jet

**Recommendations:**

Appropriate self contained breathing apparatus may be required.  
Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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**6. Accidental release measures**

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Exclude sources of ignition and ventilate the area. Exclude not essential personnel. Avoid breathing vapours. Refer to protective measures listed in section 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent; avoid the use of solvents.

If the products enter drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the national rivers authority.

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**7 . Handling and storage**

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**Handling**

Keep the container tightly closed. Exclude sources of heat, sparks and open flamer. Non sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection, see, section 8. Use earthing leads when transferring from one containers to another.

#### Storage

Observe the label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Container which are opened should be properly resealed and kept upright to prevent leakage. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. Where is not printed the expire date, on the label, the product must be used before 8 months

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## 8. Exposure controls/personal protection

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#### Engineering Measures

Provide adequate protection. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

#### Respiratory protection

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

#### Hand protection

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

#### Eye protection

Eye protection designed to protect against liquid splashes should be worn.

#### Skin protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and skin washed with soap and water or a proprietary skin cleaner.

ALIPHATIC POLYISOCYANATE

T L.V./O.E.L.

## POLYISOCYANATE HDI/TDI

T L.V./O.E.L.

## N-BUTYL ACETATE

T L.V./O.E.L.

## TOLUENE

T L.V./O.E.L.

50,000 ppm

## BUTANONE

T L.V./O.E.L.

200,000 ppm

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9. Physical and chemical properties  
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Physical State .....	Liquid
Color .....	Specify of Product
Odor .....	Solvent
PH .....	//
Boiling point .....	78,50 ºC
Flash point .....	4,00- ºC
Lower flammability limit	0,90 in % vol/vol
Higher flammability limit	11,50 in % vol/vol
Vapor pressure .(kPa)....	10,10
Distillation range .....	//
Solubility .....	with solvent
Specific gravity +/-0.02	20º 0,980 Kg/l.
Not Volatile Matira.%+/-2	36,500
Rective Not vol.mat %+/-2	
% Carbonium Org. Volatile	41,92
% React. Carb Org. Vol.	
COV .....	63,50

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10. Stability and reactivity  
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Stable under the recommended storage and handling conditions (see section 7) . In a fire hazardous decomposition products such a smoke , carbon monoxide, carbon dioxide, oxides of nitrogen; (only for LNB hydrogen cyanide, amines and alcohols may be produced). Keep away from oxidising agents and strongly alkaline and strongly acidic materials Uncontrolled exothermic reactions occur with amines and alcohols.The product reacts slowly with water resulting in evolution of carbon dioxide. In closed containers , pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

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**11. Toxicological information**

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LD 50 (oral / rat) > 2000 mg/Kg (all materials are greater than this limit)

Contact with skin : May cause irritation

Contact with eyes : May cause irritation

Ingestion : May cause irritation

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**12. Ecological information**

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There is not data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

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**13. Disposal considerations**

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Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers are controlled wastes and should be disposed of in accordance with regulations made under Control of Pollution Act and the Environmental Protection Act.

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**14. Transport information**

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**Classification:**

ADR 3-III A

MMM 3-B.42 A

Imo Code: 3 GI III UN n°: 1263

EMS: EMS F-E S-E

IATA 3 GI III UN n°: 1263

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**15. Regulatory information**

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Dangerous symbol :

HIGHLY FLAMMABLE

HARMFUL

R-Phrases

Possible risk of harm to the unborn child  
May cause sensitization by skin contact.  
Highly flammable.  
Vapours may cause drowsiness and dizziness.

## S-Phrases

Avoid contact with skin  
Wear suitable protective clothing and gloves  
Keep away from sources of ignition - No smoking

CONTAIN : ALIPHATIC POLYISOCYANATE  
POLYISOCYANATE HDI/TDI  
TOLUENE

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16 - other information

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The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals Regulatory.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation.

List of phrases that could reported to point 3

- R2 - Risk of explosion by shock, friction, fire or other sources of ignition
- R7 - May cause fire.
- R8 - CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
- R10 - FLAMMABLE
- R11 - Highly flammable.
- R14 - Reacts violently with water
- R20/21 - Harmful by inhalation and in contact with skin
- R20/22 - Harmful by inhalation and if swallowed
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
- R21 - Harmful in contact with skin
- R22 - Harmful if swallowed
- R21/22 - Harmful in contact with skin and if swallowed
- R23 - Toxic by inhalation
- R23/24 - Toxic by inhalation and in contact with skin
- R23/25 - Toxic by inhalation and if swallowed
- R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed
- R24 - Toxic in contact with skin.
- R25 - Toxic if swallowed
- R26 - Very toxic by inhalation
- R31 - Contact with acids liberates toxic gas

- R34 - Causes burns
- R35 - Causes severe burns
- R36 - Irritating to eyes
- R36/37 - Irritating to eyes and respiratory system
- R36/37/38 - Irritating to eyes, respiratory system and skin
- R37 - Irritating to respiratory system
- R37/38 - Irritating to respiratory system
- R38 - Irritating to skin
- R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
- R40 - Limited evidence of a carcinogenic effect.
- R41 - Risk of serious damage to eyes.
- R42 - May cause sensitization by inhalation.
- R42/43 - May cause sensitization by inhalation and skin contact
- R43 - May cause sensitization by skin contact.
- R48 - DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation  
- Harmful: danger of serious damage to health by prolonged exposure if swallowed
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation
- R48/23/25 - Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
- R50 - Very toxic to aquatic organisms
- R51 - Toxic to aquatic organisms
- R53 - May cause long-term adverse effects in the aquatic environment
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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
- R61 - May cause harm to the unborn child
- R62 - Possible risk of impaired fertility
- R63 - Possible risk of harm to the unborn child
- R65 - Harmful: may cause lung damage if swallowed.
- R66 - Repeated exposure may cause skin dryness or cracking
- R67 - Vapours may cause drowsiness and dizziness.
- R68 - Possible risk of irreversible effects