

## SAFETY DATA SHEET

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

#### Identification of the substance or preparation:

Name: IMPERMÉABILISANT.  
Product code: 0745001

#### Company/undertaking identification:

Registered company name: AVEL.  
Address: 16320 MAGNAC LAVALETTE.  
Telephone: 05.45.64.74.74. Fax: 05.45.64.77.36.  
avel@avel.com  
<http://www.avel.com/>

#### Emergency telephone: +33 (0)1.45.42.59.59.

Association/Organisation: INRS/ORFILA <http://www.centres-antipoison.net>.

### 2 - HAZARDS IDENTIFICATION

This product is classed: Extremely flammable.  
Possibility of irritation to the skin.  
Vapors may cause drowsiness and dizziness.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Other data:

pressurized container

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

#### Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

#### Other substances representing a hazard:

| INDEX        | CAS        | EC        | Name                                       | Symb.      | R:                               | %               |
|--------------|------------|-----------|--|------------|----------------------------------|-----------------|
| 601-006-00-1 | 109-66-0   | 203-692-4 | PENTANE                                    | Xn N<br>F+ | 12 65 66 67 51/53                | 2.5 <= x % < 10 |
| 601-037-00-0 | 110-54-3   | 203-777-6 | N-HEXANE                                   | Xn N F     | 11 38 48/20 62.F3 65<br>67 51/53 | 0 <= x % < 2.5  |
| A2651519     | 64742-49-0 | 265-151-9 | NAPHTHA (PETROLEUM),<br>HYDROTREATED LIGHT | Xn N F     | 11 65 67 38 51/53                | 25 <= x % < 50  |

#### Substances present at a concentration below the minimum danger threshold:

| INDEX        | CAS        | EC        | Name                 | Symb. | R:       | %              |
|--------------|------------|-----------|----------------------|-------|----------|----------------|
| 607-025-00-1 | 123-86-4   | 204-658-1 | N-BUTYL ACETATE      |       | 10 66 67 | 0 <= x % < 2.5 |
| A90622574    | 90622-57-4 | 292-459-0 | ISOALCANES EN C9-C12 | Xn    | 65 66 53 | 10 <= x % < 25 |

#### Other substances with occupational exposure limits:

| INDEX        | CAS      | EC        | Name    | Symb. | R: | %               |
|--------------|----------|-----------|---------|-------|----|-----------------|
| 601-003-00-5 | 74-98-6  | 200-827-9 | PROPANE | F+    | 12 | 2.5 <= x % < 10 |
| 601-004-00-0 | 106-97-8 | 203-448-7 | BUTANE  | F+    | 12 | 25 <= x % < 50  |

### 4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.  
NEVER induce swallowing in an unconscious person.

#### In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

Make use of reanimation technics. A prolonged clinic supervision can be usefull

**In the event of splashes or contact with eyes:**

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

**In the event of splashes or contact with skin:**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

DO NOT use solvents or thinners.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

**In the event of swallowing:**

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep still. DO NOT induce vomiting.

Call a doctor immediately and show him the label.

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## 5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

**Suitable extinguishing media:**

Carbon dioxide, chemical powders, foams, and other extinguishing gases.

In the event of fire, use specifically suitable extinguishing agents. Never use water.

**Extinguishing media which must not be used for safety reasons:**

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Do not use compressed air during filling, emptying or handling.

**Special protective equipment for fire-fighters:**

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

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## 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

Prevent every risk of ignition of the steams.

Wearing of gloves, glasses and possibly with an autonomous mask.

**Environmental precautions:**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

**Methods for cleaning up:**

Clean preferably with a detergent, do not use solvents.

Use some absorbent.

The elimination must be carried out by a registered salvage professional.

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## 7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

**Handling:**

Handle in well-ventilated areas.

The vapors are denser than air. They can spread along the ground and form explosive mixtures with air

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not eat or drink during the use.

Prevent accumulation of electrostatic charges.

Pulverise by short pressions, without prolonged pulverisation.

Follow hygiene and security rules because flammable capacity.

Avoid inhalation of the steams.

**Fire prevention:**

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

The steams can be toxic in case of combustion.

Prevent every contact with hot surfaces or every other ignition point.

Bring away every electric appliance.

**Recommended equipment and procedures:**

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Avoid inhaling solvent vapors and spray-gun aerosols

Packages which have been opened must be reclosed carefully and stored in an upright position

Avoid inhaling vapors.

Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent vapors in every case.

It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent vapors has fallen below the exposure limits.

Avoid contact of product with the skin and eyes

Do not smoke.

Gloves and glasses are recommended.

Keep the original packing. Do not pierce or burn even after use.

Rules of storage and manipulation applicables to the gaz under pressure.

Use only in well-ventilated premises.

**Prohibited equipment and procedures:**

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Do not pierce or burn, even after use.

Prevent high temperatures.

**Storage:**

Keep the container tightly closed in a dry, well-ventilated place

Keep away from all sources of ignition - do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep out of reach of children

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

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**8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Use personal protection equipment as per Directive 89/686/EEC.

**Technical measures:**

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

**Exposure limit values per INRS ED 984:**

| Country    | Code     | VME-ppm:   | VME-mg/m3: | VLE-ppm:    | VLE-mg/m3: | Notes: | TMP N°: |
|------------|----------|------------|------------|-------------|------------|--------|---------|
| France     | 123-86-4 | 150        | 710        | 200         | 940        | -      | 84      |
|            | 110-54-3 | 20         | 72         | -           | -          | R3     | 59, 84  |
|            | 109-66-0 | 1000       | 3000       | -           | -          | -      | 84      |
|            | 106-97-8 | 800        | 1900       | -           | -          | -      | -       |
| Germany    | Class:   | MAK-ppm:   | MAK-mg/m3: | Notes:      | Notes:     |        |         |
|            | 123-86-4 | I          | 100        | 480         | D          |        |         |
|            | 110-54-3 | II.1       | 50         | 180         | C.*        |        |         |
|            | 109-66-0 | IV         | 1000       | 3000        | -          |        |         |
|            | 106-97-8 | IV         | 1000       | 2400        | -          |        |         |
|            | 74-98-6  | IV         | 1000       | 1800        | -          |        |         |
| ACGIH(TLV) | TWA-ppm: | TWA-mg/m3: | STEL-ppm:  | STEL-mg/m3: | Notes:     | Notes: |         |
|            | 123-86-4 | 150        | 713        | 200         | 950        | -      | S       |
|            | 110-54-3 | 50         | 176        | -           | -          | *      | -       |
|            | 109-66-0 | 600        | 1770       | -           | -          | -      | -       |
|            | 106-97-8 | 800        | 1900       | -           | -          | -      | -       |
|            | 74-98-6  | 2500       | 4509       | -           | -          | -      | -       |

**Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:**

| EC       | VME-mg/m3: | VME-ppm: | VLE-mg/m3: | VLE-ppm: | Notes: |
|----------|------------|----------|------------|----------|--------|
| 110-54-3 | 72         | 20       | -          | -        | -      |
| 109-66-0 | 3000       | 1000     | -          | -        | -      |

**Exposure limit values (2003-2006):**

| UK/WELs     | TWA:       | STEL:      | Ceiling: | Definition:  | Criterion: |
|-------------|------------|------------|----------|--------------|------------|
| 123-86-4    | 150 ppm    | 200 ppm    | -        | -            | -          |
| 110-54-3    | 20 ppm     | -          | -        | -            | -          |
| 106-97-8    | 600 ppm    | 750 ppm    | -        | -            | -          |
| UK/OES      | TWA:       | STEL:      | Ceiling: | Definition:  | Criterion: |
| 123-86-4    | 150 ppm    | 200 ppm    | -        | -            | -          |
| 110-54-3    | 20 ppm     | -          | -        | -            | -          |
| 106-97-8    | 600 ppm    | 750 ppm    | -        | -            | -          |
| Germany/AGW | AGW:       | AGW:       | Faktor:  | Bemerkungen: |            |
| 110-54-3    | 50 ml/m3   | 180 mg/m3  | 8(II)    | DFG, Y       |            |
| 109-66-0    | 1000 ml/m3 | 3000 mg/m3 | 2(II)    | DFG          |            |
| 106-97-8    | 1000 ml/m3 | 2400 mg/m3 | 4(II)    | DFG          |            |
| 74-98-6     | 1000 ml/m3 | 1800 mg/m3 | 4(II)    | DFG          |            |

**Respiratory protection:**

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.  
 Prevent any inhalation from the fog.

**Hand protection:**

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.  
 In the event of prolonged or repeated contact with the hands, use appropriate gloves.

**Eye and face protection:**

Avoid contact with the skin and eyes. Wear safety goggles  
 Provide eye washes in workshops where the product is constantly handled

**Skin protection:**

For further information, see § 11 of S.D.S. - Toxicological information.  
 Wash with soaped water, then rinse with water during 15min in case of contact.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

### General information:

Physical state: fluid liquid  
spray

### Important health, safety and environmental information:

pH of the substance or preparation: not relevant.  
The pH is impossible to measure or its value is not relevant.  
Boiling point/boiling range: 55 °C.  
Flash point interval: Flash point < 0°C and distillation temperature <= 35°C  
Vapour pressure: not relevant.  
Density: < 1  
Water solubility: Insoluble.

### Other information:

melting point/melting range: not specified.  
Self-ignition temperature: 200 °C.  
Decomposition point/decomposition range : 200 °C.

## 10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

### Conditions to avoid:

Avoid the accumulation of electrostatic charges.  
Keep away of any source of heat or of ignition.

### Materials to avoid:

STRONGS OXYDISING AGENTS

### Hazardous decomposition products:

Toxics products by example, carbon oxydes.

## 11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to vapors from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as:

Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause significant irritation which lasts for at least twenty four hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

### In the event of exposure by inhalation:

A big inhalation can be the cause of waves of nausea and of irritation of the respiratory mucous membranes.

### In the event of swallowing:

Accidentally absorption can be followed by respiratory accident.

### In the event of splashes or contact with skin:

Dry out action on the skin with irritant effect.

### In the event of splashes or contact with eyes:

Can cause irritations if nonimmediate decontamination.

**Other data:**

isoparaffinic solvant DL 50/oral/rat : higher than 2000mg/kg  
Heptan DL50 sharp by ingestion or cutaneous higher than 2000mg/kg

**12 - ECOLOGICAL INFORMATION**

No ecological data on the product itself is available.  
The product must not be allowed to run into drains or waterways.

**Ecotoxicity:**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Other adverse effects:**

Do not throw out product in the nature, in residual watters or superficials ones

**13 - DISPOSAL CONSIDERATIONS**

Do not pour into drains or waterways.  
Aerosol do not pierce or burn after use  
CONSIGN TO AN APPROVED COLLECTOR. CONSULT THE PREFECTORAL ORDERS IN FORCE.

**Waste:**

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.  
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging:**

Empty container completely. Keep label(s) on container.  
Give to a certified disposal contractor.

**14 - TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2007 - IMDG 2006 - ICAO/IATA 2007).

UN1950=AEROSOLS

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ  | Provis.     |
|---------|-------|------|----------|-------|--------|-----|-------------|
|         | 2     | 5F   | -        | 2.1   | -      | LQ2 | 190 327 625 |



| IMDG | Class | 2°Label | Pack gr. | LQ       | EMS      | Provis.            |        |              |
|------|-------|---------|----------|----------|----------|--------------------|--------|--------------|
|      | 2.1   | SP63    | -        | SP277    | F-D,S-U  | 63 190 277 327 959 |        |              |
| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo              | Cargo  | note         |
|      | 2.1   | -       | -        | 203      | 75 Kg    | 203                | 150 Kg | A145<br>A153 |
|      | 2.1   | -       | -        | Y203     | 30 Kg G  | -                  | -      | -            |

**15 - REGULATORY INFORMATION**

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations  
In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition directive 2009/2/EC with the 31° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition Regulation (EC) No 1272/2008 have been taken into account.

**Preparation classification:**



Irritant



Dangerous for the environment



Extremely flammable

**Particular hazards associated with the preparation and safety recommendations:**

|         |  |
|---------|--|
| R 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.    |
| R 38    | Irritating to skin.  |
| R 12    | Extremely flammable.   |
| R 67    | Vapours may cause drowsiness and dizziness.  |
| S 2     | Keep away from fire, ignition source or spark - do not smoke.                                  |
| S 23    | Keep out of the reach of children.   |
| S 29    | Do not breathe the vapours.  |
| S 46    | If swallowed, seek medical advice immediately and show this container or label.                |
| S 61    | Avoid release to the environment. Refer to special instructions/Safety data sheets.            |
|         | Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. |
|         | Do not pierce or burn, even after use.   |
|         | Do not spray on a naked flame or any incandescent material.                                    |
| S 24    | Avoid contact with skin.   |
| S 51    | Use only in well-ventilated areas.   |
|         | Pulverise by short pressures, without prolonged pulverisation.                                 |
|         | Do not use for any purpose other than the one for which it is intended.                        |

**Particular provisions:**

NFPA 704 Label: Health=2 Flammability=4 Instability=1 Special Hazards=none



**16 - OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

**Full text of risk phrases appearing in section 3:**

|         |   |
|---------|---|
| R 10    | Flammable.  |
| R 11    | Highly flammable.   |
| R 12    | Extremely flammable.  |
| R 38    | Irritating to skin.   |
| R 48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation.       |
| R 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 53    | May cause long-term adverse effects in the aquatic environment.                             |
| R 62.F3 | Possible risk of impaired fertility.  |

|      |   |
|------|---|
| R 65 | Harmful: may cause lung damage if swallowed.          |
| R 66 | Repeated exposure may cause skin dryness or cracking. |
| R 67 | Vapours may cause drowsiness and dizziness.           |