



# SAFETY DATA SHEET

Revision Date 07-Aug-2018

Version 7

## 1. IDENTIFICATION

### Product identifier

**Product Name** SUPER PENETRANT 12OZ.

### Other means of identification

**Product Code** 80052

### Recommended use of the chemical and restrictions on use

**Recommended Use** Penetrant

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ITW Permatex  
6875 Parkland Blvd.  
Solon, OH 44139 USA

#### May Also Be Distributed by:

ITW Permatex Canada  
101-2360 Bristol Circle  
Oakville, ON Canada L6H 6M5  
Telephone: (800) 924-6994

#### 24-hour emergency phone number

Chem-Tel: 800-255-3924  
International Emergency:  
00+1+ 813-248-0585  
Contract Number: MIS0003453

**E-mail address:** mail@permatex.com

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                      |               |
|----------------------|---------------|
| Aspiration toxicity  | Category 1    |
| Flammable Aerosol    | Category 1    |
| Gases under pressure | Liquefied gas |

### Label elements

#### **Emergency Overview**

#### Signal word

**Danger**

May be fatal if swallowed and enters airways  
Extremely flammable aerosol  
Contains gas under pressure; may explode if heated

**Appearance** Dark**Physical state** Flammable Aerosol**Odor** Solvent**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Do not spray on an open flame or other ignition source  
 Pressurized container: Do not pierce or burn, even after use

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

- Not applicable

Unknown acute toxicity

44 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance(s)**

| Chemical Name                                  | CAS No     | Weight-% |
|------------------------------------------------|------------|----------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED LIGHT | 64742-47-8 | 15 - 40  |
| SOLVENT NAPHTHA (PETROLEUM),<br>LIGHT ALIPH.   | 64742-89-8 | 10 - 30  |
| PROPANE                                        | 74-98-6    | 3 - 7    |
| BUTANE                                         | 106-97-8   | 3 - 7    |
| OCTANE                                         | 111-65-9   | 0.1 - 1  |
| HEPTANE                                        | 142-82-5   | 0.1 - 1  |

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Get medical advice/attention if you feel unwell.

**Eye contact**

IF IN EYES: Wash with plenty of water. If eye irritation persists: Get medical advice/attention.

**Skin contact**

IF ON SKIN: Wash skin with soap and water. If skin irritation persists, call a physician.

Take off contaminated clothing and wash before reuse.

|                                           |                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                         | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician. |
| <b>Ingestion</b>                          | IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.                          |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.                         |

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** See section 2 for more information.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

#### **Unsuitable extinguishing media**

None

#### **Specific hazards arising from the chemical**

Extremely flammable. Contains gas under pressure; may explode if heated. Vapors may travel to source of ignition and flash back.

#### **Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not puncture or incinerate cans. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

#### **Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

#### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### **7. HANDLING AND STORAGE**

**Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Contents under pressure. Do not puncture or incinerate cans.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Incompatible materials**

Strong oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

| Chemical Name       | ACGIH TLV                                | OSHA PEL                                                                                                                                                                            | NIOSH IDLH                                                                                                                       |
|---------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| PROPANE<br>74-98-6  | : See Appendix F: Minimal Oxygen Content | TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1800 mg/m <sup>3</sup>                                                                    | IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m <sup>3</sup>                                                                   |
| BUTANE<br>106-97-8  | STEL: 1000 ppm                           | (vacated) TWA: 800 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup>                                                                                                                     | TWA: 800 ppm<br>TWA: 1900 mg/m <sup>3</sup>                                                                                      |
| OCTANE<br>111-65-9  | TWA: 300 ppm                             | TWA: 500 ppm<br>TWA: 2350 mg/m <sup>3</sup><br>(vacated) TWA: 300 ppm<br>(vacated) TWA: 1450 mg/m <sup>3</sup><br>(vacated) STEL: 375 ppm<br>(vacated) STEL: 1800 mg/m <sup>3</sup> | IDLH: 1000 ppm<br>Ceiling: 385 ppm 15 min<br>Ceiling: 1800 mg/m <sup>3</sup> 15 min<br>TWA: 75 ppm<br>TWA: 350 mg/m <sup>3</sup> |
| HEPTANE<br>142-82-5 | STEL: 500 ppm<br>TWA: 400 ppm            | TWA: 500 ppm<br>TWA: 2000 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1600 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 2000 mg/m <sup>3</sup> | IDLH: 750 ppm<br>Ceiling: 440 ppm 15 min<br>Ceiling: 1800 mg/m <sup>3</sup> 15 min<br>TWA: 85 ppm<br>TWA: 350 mg/m <sup>3</sup>  |

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls****Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin and body protection**

Wear protective natural rubber, nitrile rubber, Neoprene™ or PVC gloves.

**Respiratory protection**

Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                |                          |
|----------------|--------------------------|
| Physical state | Flammable Aerosol        |
| Appearance     | Dark                     |
| Odor           | Solvent                  |
| Odor threshold | No information available |

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u>                                                                    |
|--------------------------------|--------------------------|--------------------------------------------------------------------------------------------|
| pH                             | No information available |                                                                                            |
| Melting point / freezing point | No information available |                                                                                            |
| Boiling point / boiling range  | No information available |                                                                                            |
| Flash point                    | -104 °C / -155 °F        | Gives a flame projection at full valve opening or flashback at any degree of valve opening |
| Evaporation rate               | No information available |                                                                                            |
| Flammability (solid, gas)      | No information available |                                                                                            |
| Flammability Limit in Air      |                          |                                                                                            |
| Upper flammability limit:      | 7.3%                     |                                                                                            |
| Lower flammability limit:      | 1.0%                     |                                                                                            |
| Vapor pressure                 | 20-30 psig @ 20°C        |                                                                                            |
| Vapor density                  | No information available |                                                                                            |
| Relative density               | 0.798                    |                                                                                            |
| Water solubility               | No information available |                                                                                            |
| Solubility in other solvents   | No information available |                                                                                            |
| Partition coefficient          | No information available |                                                                                            |
| Autoignition temperature       | 345.78°C (654.4°F)       |                                                                                            |
| Decomposition temperature      | No information available |                                                                                            |
| Kinematic viscosity            | No information available |                                                                                            |
| Dynamic viscosity              | No information available |                                                                                            |
| Explosive properties           | No information available |                                                                                            |
| Oxidizing properties           | No information available |                                                                                            |

**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content (%)  | 23.9%                    |
| Density          | No information available |
| Bulk density     | No information available |

**10. STABILITY AND REACTIVITY****Reactivity**

Stable under normal conditions

**Chemical stability**

Stable under recommended storage conditions

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

|                     |                                                                                              |
|---------------------|----------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.                                                   |
| <b>Eye contact</b>  | Contact with eyes may cause irritation. May cause redness and tearing of the eyes.           |
| <b>Skin contact</b> | May cause skin irritation and/or dermatitis.                                                 |
| <b>Ingestion</b>    | Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis. |

| Chemical Name                                                | Oral LD50            | Dermal LD50             | Inhalation LC50                                               |
|--------------------------------------------------------------|----------------------|-------------------------|---------------------------------------------------------------|
| DISTILLATES (PETROLEUM),<br>HYDROTREATED LIGHT<br>64742-47-8 | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h                                        |
| SOLVENT NAPHTHA<br>(PETROLEUM), LIGHT ALIPH.<br>64742-89-8   | -                    | = 3000 mg/kg ( Rabbit ) | -                                                             |
| PROPANE<br>74-98-6                                           | -                    | -                       | = 658 mg/L ( Rat ) 4 h                                        |
| BUTANE<br>106-97-8                                           | -                    | -                       | = 658 g/m <sup>3</sup> ( Rat ) 4 h                            |
| OCTANE<br>111-65-9                                           | -                    | -                       | = 118 g/m <sup>3</sup> ( Rat ) 4 h = 25260 ppm<br>( Rat ) 4 h |
| HEPTANE<br>142-82-5                                          | -                    | = 3000 mg/kg ( Rabbit ) | = 103 g/m <sup>3</sup> ( Rat ) 4 h                            |

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.  
**Target Organ Effects** Central nervous system.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 9343 mg/kg  
 ATEmix (dermal) 2802 mg/kg  
 ATEmix (inhalation-gas) 1762907 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

54 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

| Chemical Name      | Partition coefficient |
|--------------------|-----------------------|
| PROPANE<br>74-98-6 | 2.3                   |
| BUTANE<br>106-97-8 | 2.89                  |
| OCTANE<br>111-65-9 | 5.18                  |

|                     |      |
|---------------------|------|
| HEPTANE<br>142-82-5 | 4.66 |
|---------------------|------|

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Disposal of wastes</b>     | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| <b>Contaminated packaging</b> | Do not reuse container.                                                                             |
| <b>US EPA Waste Number</b>    | D001                                                                                                |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name       | California Hazardous Waste Status |
|---------------------|-----------------------------------|
| OCTANE<br>111-65-9  | Toxic<br>Ignitable                |
| HEPTANE<br>142-82-5 | Toxic<br>Ignitable                |

**14. TRANSPORT INFORMATION****DOT**

|                                 |                                 |
|---------------------------------|---------------------------------|
| UN/ID No                        | 1950                            |
| Proper shipping name:           | Aerosols, Limited Quantity (LQ) |
| Hazard Class                    | 2.1                             |
| Emergency Response Guide Number | 126                             |

**IATA**

|                       |                    |
|-----------------------|--------------------|
| UN/ID No              | ID 8000            |
| Proper shipping name: | Consumer commodity |
| Hazard Class          | 9                  |
| ERG Code              | 9L                 |

**IMDG**

|                       |                                 |
|-----------------------|---------------------------------|
| UN/ID No              | 1950                            |
| Proper shipping name: | Aerosols, Limited Quantity (LQ) |
| Hazard Class          | 2.1                             |
| EmS-No                | F-D, S-U                        |

**15. REGULATORY INFORMATION****International Inventories**

|               |                |
|---------------|----------------|
| TSCA          | Complies       |
| DSL/NDL       | Complies       |
| EINECS/ELINCS | Complies       |
| ENCS          | Not determined |
| IECSC         | Complies       |
| KECL          | Complies       |
| PICCS         | Complies       |
| AICS          | Complies       |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

WARNING: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm

#### U.S. State Right-to-Know Regulations

| Chemical Name       | New Jersey | Massachusetts | Pennsylvania |
|---------------------|------------|---------------|--------------|
| PROPANE<br>74-98-6  | X          | X             | X            |
| BUTANE<br>106-97-8  | X          | X             | X            |
| OCTANE<br>111-65-9  | X          | X             | X            |
| HEPTANE<br>142-82-5 | X          | X             | X            |

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

A Compressed gases, B5 - Flammable aerosol, D2B - Toxic materials

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

|             |                  |                |                    |                       |
|-------------|------------------|----------------|--------------------|-----------------------|
| <u>NFPA</u> | Health hazards 2 | Flammability 4 | Instability 0      | -                     |
| <u>HMIS</u> | Health hazards 2 | Flammability 4 | Physical hazards 0 | Personal protection B |

NFPA (National Fire Protection Association)  
 HMIS (Hazardous Material Information System)

Revision Date 07-Aug-2018



**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**