

# SAFETY DATA SHEET

Revision Date 19-Dec-2017 Version 3

# 1. IDENTIFICATION

**Product identifier** 

Product Name SURFACE PREP 4.5OZ AE

Other means of identification

Product Code 24163 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Surface active agent
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer AddressMay Also Be Distributed by:ITW PermatexITW Permatex Canada6875 Parkland Blvd.35 Brownridge Road, Unit 1Solon, OH 44139 USAHalton Hills, ON Canada L7G 0C6Telephone: (800) 924-6994

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Contract Number: MIS0003453

E-mail address mail@permatex.com

# Classification

#### **OSHA Regulatory Status**

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

Skin corrosion/irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable aerosols	Category 1
Gases under pressure	Liquefied gas

#### Label elements

### **Emergency Overview**

### Signal word Danger

Causes skin irritation
May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Extremely flammable aerosol

Pressurized container: May burst if heated

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Appearance Green Physical state Liquid Odor Solvent

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area 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 Wear protective gloves

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

# **Precautionary Statements - Storage**

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

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

- The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 % w/w 1,3-butadiene (EINECS No. 203-450-8)

Unknown acute toxicity

5 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
HEPTANE	142-82-5	40 - 70	*
PROPANE	74-98-6	10 - 30	*
ISOBUTANE	75-28-5	10 - 30	*
ETHANOL	64-17-5	1 - 5	*

### 4. FIRST AID MEASURES

### **Description of first aid measures**

**General advice** Get medical advice/attention if you feel unwell.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. 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.

Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Call a physician or poison control center immediately. Do NOT induce

vomiting.

Self-protection of the first aider 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 (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Contains gas under pressure; may explode if heated.

**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).

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protective equipment as required.

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. Use

personal protective equipment as required.

**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 Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protective

equipment as required.

#### Conditions for safe storage, including any incompatibilities

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

up.

Incompatible materials Strong acids, Bases, Acids

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
HEPTANE	STEL: 500 ppm	TWA: 500 ppm	IDLH: 750 ppm
142-82-5	TWA: 400 ppm	TWA: 2000 mg/m <sup>3</sup>	Ceiling: 440 ppm 15 min
		(vacated) TWA: 400 ppm	Ceiling: 1800 mg/m <sup>3</sup> 15 min
		(vacated) TWA: 1600 mg/m <sup>3</sup>	TWA: 85 ppm
		(vacated) STEL: 500 ppm	TWA: 350 mg/m <sup>3</sup>
		(vacated) STEL: 2000 mg/m <sup>3</sup>	
PROPANE	: See Appendix F: Minimal	TWA: 1000 ppm	IDLH: 2100 ppm
74-98-6	Oxygen Content	TWA: 1800 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1800 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	
ISOBUTANE	STEL: 1000 ppm	-	TWA: 800 ppm
75-28-5			TWA: 1900 mg/m <sup>3</sup>
ETHANOL	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 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.

Gives a flame projection at full valve opening or flashback at any degree of valve opening

Ether = 1

Air = 1

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 Liquid
Appearance Green
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
Boiling point / boiling range No information available
No information available

Flash point  $< 0 \, ^{\circ}\text{C} \, / < 32 \, ^{\circ}\text{F}$ 

Evaporation rate <1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 9.5%
Lower flammability limit: 1.0%
Vapor pressure 71 psig
Vapor density >1
Relative density 0.66

Water solubility 0.00 Negligible

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **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 (%)** 97.6%

DensityNo information availableBulk densityNo 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

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Strong acids, Bases, Acids

#### **Hazardous Decomposition Products**

Carbon oxides Phosphorus Copper compounds

#### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract. May cause drowsiness or dizziness.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

**Skin contact** May cause skin irritation and/or dermatitis.

Ingestion Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and

pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
HEPTANE	-	= 3000 mg/kg ( Rabbit )	= 103 g/m <sup>3</sup> (Rat) 4 h
142-82-5			
PROPANE	-	-	= 658 mg/L (Rat) 4 h
74-98-6			
ISOBUTANE	-	-	= 658 mg/L (Rat) 4 h
75-28-5			
ETHANOL	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			

#### 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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL	A3	-	Known	X
64-17-5				

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Chronic toxicity May cause adverse effects on the bone marrow and blood-forming system. May cause

adverse liver effects. Contains a known or suspected reproductive toxin.

Target Organ Effects Central nervous system, Respiratory system, Eyes, Skin, Blood, Liver, Reproductive

System.

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

ATEmix (oral) 353000 mg/kg
ATEmix (dermal) 4615 mg/kg
ATEmix (inhalation-gas) 1124303 mg/l
ATEmix (inhalation-dust/mist) 155 mg/l

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

33 % of the mixture consists of components(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
HEPTANE	4.66
142-82-5	
PROPANE	2.3
74-98-6	
ISOBUTANE	2.88
75-28-5	
ETHANOL	-0.32
64-17-5	

#### Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated packaging Do not reuse container.

US EPA Waste Number 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	
HEPTANE	Toxic	
142-82-5	Ignitable	
ETHANOL	Toxic	
64-17-5	Ignitable	

# 14. TRANSPORT INFORMATION

DOT

**UN/ID no** 1950

Proper shipping name: Aerosols, Limited Quantity (LQ)

Hazard Class 2.1 Emergency Response Guide 126

Number

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 Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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 contains the following substances which are regulated 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**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
ETHANOL - 64-17-5	Carcinogen	
	Developmental	

<sup>•</sup> Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
HEPTANE	Х	X	X
142-82-5			

PROPANE 74-98-6	Х	Х	Х
ISOBUTANE 75-28-5	Х	Х	Х
ETHANOL 64-17-5	Х	Х	Х
ORGANO-COPPER COMPOUND 68084-48-0	Х	-	Х
ORGANO-COPPER COMPOUND 22221-10-9	Х	-	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

NFPA Health hazards 2 Flammability 3 Instability 0 -

HMIS Health hazards 2 Flammability 3 Physical hazards 0 Personal protection B

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

Revision Date 19-Dec-2017

#### **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**