

Revision Date 24-Feb-2020

## SAFETY DATA SHEET

Version 4

**1. IDENTIFICATION** 

Product identifier<br/>Product NameSURFACE PREP4.50ZAEOther means of identification<br/>Product Code24163Recommended use of the chemical and restrictions on use<br/>Recommended UseSurface active agent

Uses advised against No information available
Details of the supplier of the safety data sheet
Manufacturer Address
ITW Permatex

6875 Parkland Blvd. Solon, Ohio 44139 USA Telephone: 1-87-Permatex (866) 732-9502 **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

May Also Be Distributed by: ITW Permatex Canada 101-2360 Bristol Circle

Oakville, ON Canada L6H 6M5 Telephone: (800) 924-6994

2. HAZARDS IDENTIFICATION

#### **Classification**

#### OSHA Regulatory Status

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

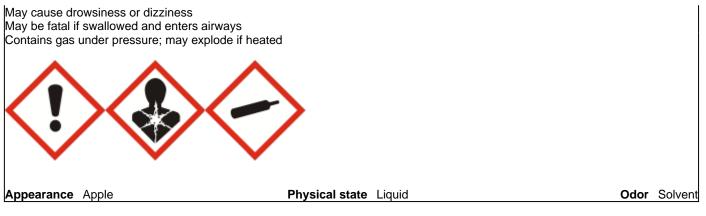
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Gases under pressure	Compressed gas

#### Label elements

#### **Emergency Overview**

<u>Signal word</u> Danger

Causes skin irritation May cause genetic defects May cause cancer May cause respiratory irritation



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

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required 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

#### Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention Specific treatment (see .? 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

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Other Information**

May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
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	Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.	
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	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.	
Inhalation	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult.	
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 effe	cts, both acute and delayed	
Symptoms	See section 2 for more information.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Keep victim warm and quiet.	
5. FIRE-FIGHTING MEASURES		

#### Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Dry chemical or CO2, Water spray, fog or regular foam, Move containers from fire area if you can do it without risk, Damaged cylinders should be handled only by specialists

#### Unsuitable extinguishing media

None

#### Specific hazards arising from the chemical

Some may burn but none ignite readily. Ruptured cylinders may rocket.

# Explosion dataSensitivity to Mechanical ImpactNone.Sensitivity to Static DischargeNone.

#### 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	Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Other Information	Ventilate the area.
Environmental precautions	
Environmental precautions	Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent entry into waterways, sewers, basements or confined

areas.

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

Methods for containmentIf possible, turn leaking containers so that gas escapes rather than liquid. Allow substance<br/>to evaporate.Methods for cleaning upDo not direct water at spill or source of leak.Prevention of secondary hazardsClean 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, explosion hazard	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 explosion	-	TWA: 800 ppm
75-28-5	hazard		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.
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

9.1. Information on basic physica	al and chemical properties	
Physical state	Liquid	
Appearance	Apple	
Odor	Solvent	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	< 0 °C / < 32 °F	Gives a flame projection at full valve opening or
		flashback at any degree of valve opening
Evaporation rate	<1	Ether = 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	Air = 1
Relative density	0.66	741 - 1
Water solubility	Negligible	
Solubility(ies)	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 (%)	95	
Density	No information available	
Bulk density	No information available	
SADT (self-accelerating	No information available	
decomposition temperature)		

10. STABILITY AND REACTIVITY

#### **Reactivity**

No information available

<u>Chemical stability</u> Stable under normal conditions

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Heat, flames and sparks.

#### Incompatible materials

Strong acids, Bases, Acids

#### **Hazardous Decomposition Products**

Carbon oxides Phosphorus Copper compounds

### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	May be harmful in contact with skin. May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause irritation to mucous membranes.

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	-	-	> 800000 ppm (Rat) 15 min
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 informa	ation available.		
Germ cell mutagenicity	No informa	ation available.		
Carcinogenicity	The table b	pelow indicates whether each	h agency has listed any ing	redient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL	A3	Group 1	Known	X
64-17-5				
ACGIH (American Confe	rence of Governmental I	ndustrial Hygienists)		
A3 - Animal Carcinogen				
IARC (International Age		icer)		
Group 1 - Carcinogenic to				
NTP (National Toxicolog				
Known - Known Carcinog	en			
	fety and Health Adminis	tration of the US Department o	of Labor)	
X - Present				
Chronic toxicity	5	e adverse effects on the bone		
	adverse liv	er effects. Contains a known	or suspected reproductive	e toxin.
Target Organ Effects	arget Organ Effects Central nervous system, Respiratory system, Eyes, Skin, Blood, Liver, Reproducti		_iver, Reproductive	
0 0	System.			•
	,			
The following values are	calculated based on c	hapter 3.1 of the GHS doc	ument .	
ATEmix (oral)	353000 m			
ATEmix (dermal)	4615 mg/ł	0 0		
	0	8		
ATEmix (inhalation-ga	-	iig/i		
ATEmix (inhalation-d	ust/mist) 155 mg/l			

#### 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

#### Ecotoxicity

4 % 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
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
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to DOT.
Emergency Response Guide	126
Number	

#### <u>IATA</u>

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
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

#### **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
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	Carcinogen
64-17-5	Developmental

• 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	Х	Х
142-82-5			
PROPANE	Х	Х	Х
74-98-6			
ISOBUTANE	Х	Х	Х
75-28-5			
ETHANOL	Х	Х	Х
64-17-5			
ORGANO-COPPER COMPOUND	Х	-	Х
68084-48-0			
ORGANO-COPPER COMPOUND	Х	-	Х
22221-10-9			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

B2 - Flammable liquid

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

NFPA	
HMIS	

Health hazards 2 Health hazards 2 Flammability 3 Flammability 3 Instability 0 Physical hazards 0

Personal protection B

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

Revision Date 24-Feb-2020

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**End of Safety Data Sheet**