SAFETY DATA SHEET

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision Date 22-Oct-2015 **Version** 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code	80632
Product Name	THREAD SEALANT W/PTFE 4 FL.OZ.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Sealant
Uses advised against	No information available

1.3. Details of the supplier of the safety data sheet

Importer
ITW Permatex
10 Columbus Blvd.
Hartford, CT 06106 USA
Telephone: 1-87-Permatex
(877) 376-2839

E-mail address
mail@permatex.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number - 800-255-3924 (00+ 1+ 813-248-0585) ChemTel

Section 2: HAZARDS IDENTIFICATION

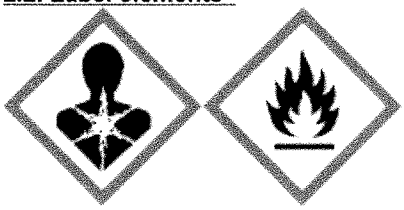
2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Specific target organ toxicity (single exposure)	Category 1 - (H370)
Flammable liquids	Category 3 - (H226)

Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16

2.2. Label elements



Signal word

Danger

Statements of hazard
H370 - Causes damage to organs if swallowed
H226 - Flammable liquid and vapor

Precautionary Statements - EU (§28, 1272/2008)
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P210 - Keep away from open flames/hot surfaces. - No smoking
P243 - Take precautionary measures against static discharge

Other Information
• Not applicable

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 substances

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
ETHANOL	200-578-6	64-17-5	20-40	F; R11	Flam. Liq. 2 (H225)	No data available
2-PROPANOL	200-661-7	67-63-0	<5	F; R11 Xi; R36 R67	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	No data available
METHANOL	200-659-6	67-56-1	<2	F; R11 T; R23/24/25-39/23/24/25	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	No data available
METHYL ISOBUTYL KETONE	203-550-1	108-10-1	0.1-1.0	F; R11 Xn; R20 Xi; R36/37 R66	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) (EUH066) STOT SE 3 (H335) Flam. Liq. 2 (H225)	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.

Skin contact IF ON SKIN:. Wash with soap and water. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

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.

Ingestion IF SWALLOWED:. Call a physician or poison control center immediately. Rinse mouth. 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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Keep victim warm and quiet.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Foam. Dry chemical.

Unsuitable extinguishing media
No information available

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapors may form explosive mixtures with air.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas.

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. 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.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. 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.

General Hygiene Considerations
Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store locked up.

Incompatible materials
Strong oxidizing agents

7.3. Specific end use(s)

Specific use(s)
Automotive Sealant.

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
ETHANOL 64-17-5	-	TWA: 1000 ppm TWA: 1920 mg/m³ STEL: 3000 ppm STEL: 5760 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 5000 ppm STEL: 9500 mg/m³	STEL: 1000 ppm STEL: 1910 mg/m³	TWA: 500 ppm TWA: 960 mg/m³
2-PROPANOL 67-63-0	-	TWA: 400 ppm TWA: 999 mg/m³ STEL: 500 ppm STEL: 1250 mg/m³	STEL: 400 ppm STEL: 980 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	TWA: 200 ppm TWA: 500 mg/m³
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ *	TWA: 200 ppm TWA: 266 mg/m³ STEL: 250 ppm STEL: 333 mg/m³ Sk*	TWA: 200 ppm TWA: 260 mg/m³ STEL: 1000 ppm STEL: 1300 mg/m³ *	TWA: 200 ppm TWA: 266 mg/m³ vía dérmica*	TWA: 200 ppm TWA: 270 mg/m³ H*
METHYL ISOBUTYL KETONE 108-10-1	TWA 20 ppm TWA 83 mg/m³ STEL 50 ppm STEL 208 mg/m³	TWA: 50 ppm TWA: 208 mg/m³ STEL: 100 ppm STEL: 416 mg/m³ Sk*	TWA: 20 ppm TWA: 83 mg/m³ STEL: 50 ppm STEL: 208 mg/m³	TWA: 20 ppm TWA: 83 mg/m³ STEL: 50 ppm STEL: 208 mg/m³	TWA: 20 ppm TWA: 83 mg/m³ H*
Chemical Name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
ETHANOL 64-17-5	-	TWA: 1000 ppm	TWA: 260 mg/m³ STEL: 1900 mg/m³ H*	TWA: 1000 ppm TWA: 1900 mg/m³ STEL: 1300 ppm STEL: 2500 mg/m³	TWA: 1000 ppm TWA: 1900 mg/m³
2-PROPANOL 67-63-0	-	TWA: 200 ppm STEL: 400 ppm	-	TWA: 200 ppm TWA: 500 mg/m³ STEL: 250 ppm STEL: 620 mg/m³	TWA: 200 ppm TWA: 490 mg/m³
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ pelle*	TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm P*	TWA: 133 mg/m³ TWA: 100 ppm H*	TWA: 200 ppm TWA: 270 mg/m³ STEL: 250 ppm STEL: 330 mg/m³	TWA: 200 ppm TWA: 260 mg/m³ H*

				iho*	
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m³ STEL: 50 ppm STEL: 208 mg/m³	TWA: 20 ppm TWA: 83 mg/m³ STEL: 50 ppm STEL: 208 mg/m³	TWA: 104 mg/m³ STEL: 208 mg/m³	TWA: 20 ppm TWA: 80 mg/m³ STEL: 50 ppm STEL: 210 mg/m³	TWA: 20 ppm TWA: 83 mg/m³ H*
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
ETHANOL 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m³ STEL 2000 ppm STEL 3800 mg/m³	TWA: 500 ppm TWA: 960 mg/m³ STEL: 1000 ppm STEL: 1920 mg/m³	TWA: 1900 mg/m³	TWA: 500 ppm TWA: 950 mg/m³ STEL: 500 ppm STEL: 950 mg/m³	STEL: 1000 ppm
2-PROPANOL 67-63-0	TWA: 200 ppm TWA: 500 mg/m³ STEL 800 ppm STEL 2000 mg/m³	TWA: 200 ppm TWA: 500 mg/m³ STEL: 400 ppm STEL: 1000 mg/m³	STEL: 1200 mg/m³ TWA: 900 mg/m³	TWA: 100 ppm TWA: 245 mg/m³ STEL: 100 ppm STEL: 245 mg/m³	TWA: 200 ppm STEL: 400 ppm Sk*
METHANOL 67-56-1	TWA: 200 ppm TWA: 260 mg/m³ STEL 800 ppm STEL 1040 mg/m³ H*	TWA: 200 ppm TWA: 260 mg/m³ STEL: 800 ppm STEL: 1040 mg/m³ H*	STEL: 300 mg/m³ TWA: 100 mg/m³	TWA: 100 ppm TWA: 130 mg/m³ STEL: 100 ppm STEL: 130 mg/m³ H*	TWA: 200 ppm TWA: 260 mg/m³ STEL: 600 ppm STEL: 780 mg/m³ Sk*
METHYL ISOBUTYL KETONE 108-10-1	TWA: 20 ppm TWA: 83 mg/m³ STEL 50 ppm STEL 208 mg/m³ H*	TWA: 20 ppm TWA: 82 mg/m³ STEL: 40 ppm STEL: 164 mg/m³ H*	STEL: 200 mg/m³ TWA: 83 mg/m³	TWA: 20 ppm TWA: 83 mg/m³ STEL: 20 ppm STEL: 83 mg/m³ H*	TWA: 20 ppm TWA: 83 mg/m³ STEL: 50 ppm STEL: 208 mg/m³ Sk*

Chemical Name	European Union	United Kingdom	France	Spain	Germany
2-PROPANOL 67-63-0	-	-	-	40	25 mg/L
METHANOL 67-56-1	-	-	-	15	30 mg/L
METHYL ISOBUTYL KETONE 108-10-1	-	20	-	1	0.7 mg/L
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
2-PROPANOL 67-63-0	-	25	-	-	-
METHANOL 67-56-1	-	30	-	-	-
METHYL ISOBUTYL KETONE 108-10-1	-	2	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Controls Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Suitable protective clothing. Gloves made of plastic or rubber.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state Paste

Appearance White

Odor Alcoholic

Odor threshold	No information available

Property	Values	Remarks • Method
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	82 °C / 180 °F	
Flash point	25 °C / 77 °F	Tag Closed Cup
Evaporation rate	< 1	Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	12.7%	
Lower flammability limit:	2.3%	
Vapor pressure	33 mm Hg @ 68°F	
Vapor density	>1	Air = 1
Relative density	1.06-1.10	
Water solubility	Partially soluble	
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	

9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	29.5%
Density	No information available
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not applicable

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon oxides
Fluorides

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Irritating to eyes. May cause redness and tearing of the eyes.
Skin contact	May cause skin irritation and/or dermatitis. Prolonged contact may cause redness and irritation.
Ingestion	Harmful if swallowed.

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

ATEmix (oral)	3,700.00 mg/kg
ATEmix (dermal)	8,390.00 mg/kg
ATEmix (inhalation-dust/mist)	15.25 mg/l

Unknown acute toxicity

60.68895 % of the mixture consists of ingredient(s) of unknown toxicity.
31.47105 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
56.24895 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
60.68895 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
60.68895 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
59.35395 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organ Effects	Central nervous system, Blood, Central Vascular System (CVS), Eyes, Gastrointestinal tract (GI), Liver, Reproductive System, Respiratory system, Skin.
Aspiration hazard:	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ETHANOL	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

		Pimephales promelas mg/L LC50 flow-through	
2-PROPANOL	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	11130: 96 h Pimephales promelas mg/L LC50 static 9640: 96 h Pimephales promelas mg/L LC50 flow-through 1400000: 96 h Lepomis macrochirus µg/L LC50	13299: 48 h Daphnia magna mg/L EC50
METHANOL	-	13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static	-
METHYL ISOBUTYL KETONE	400: 96 h Pseudokirchneriella subcapitata mg/L EC50	496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through	170: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
ETHANOL	-0.32
2-PROPANOL	0.05
METHANOL	-0.77
METHYL ISOBUTYL KETONE	1.19

12.4. Mobility in soil

Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

Waste codes / waste designations according to EWC / AVV No data available

Other Information Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG

14.1 UN/ID no	1133
14.2 Proper shipping name:	Adhesives, Limited Quantity (LQ)
14.3 Hazard Class	3
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 EmS-No	F-E, S-D

RID

14.1 UN/ID no	1133
14.2 Proper shipping name:	Adhesives, Limited Quantity (LQ)
14.3 Hazard Class	3
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 Classification code	F1

ADR

14.1 UN/ID no	1133
14.2 Proper shipping name:	Adhesives, Limited Quantity (LQ)
14.3 Hazard Class	3
14.4 Packing Group	III
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 Classification code	F1

IATA

14.1 UN/ID no	ID 8000
14.2 Proper shipping name:	Consumer commodity
14.3 Hazard Class	9
14.4 Packing Group	None
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	No information available
14.7 ERG Code	9L

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Name	French RG number	Title
ETHANOL 64-17-5	RG 84	-
2-PROPANOL 67-63-0	RG 84	-
METHANOL 67-56-1	RG 84	-
METHYL ISOBUTYL KETONE 108-10-1	RG 84	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants
Not applicable

Chemical Name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
METHANOL - 67-56-1	500	5000

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not Listed.
ENCS	Not Listed.
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

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of R-phrases referred to under sections 2 and 3
No information available

Full text of H-Statements referred to under section 3
H225 - Highly flammable liquid and vapor
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs if inhaled
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Legend
SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision Date 22-Oct-2015

Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet