

SAFETY DATA SHEET

Revision Date 02-May-2020 Version 12

1. IDENTIFICATION

Product identifier

Product Name VERSACHEM GASKET SEALANT TYPE 2 85 GR

Other means of identification

Product Code 23009

Recommended use of the chemical and restrictions on use

Recommended Use Sealant

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)

Carcinogenicity Category 1A

Label elements

Emergency Overview

<u>Signal word</u> Danger

May cause cancer



Appearance Black Physical state Paste Liquid Odor Alcohol

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

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

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

Toxic to aquatic life with long lasting effects.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
KAOLIN	1332-58-7	30 - 60
ETHANOL	64-17-5	5 - 10
2-PROPANOL	67-63-0	1 - 5
CRYSTALLINE SILICA	14808-60-7	1 - 5
TITANIUM DIOXIDE	13463-67-7	0.1 - 1
CARBON BLACK	1333-86-4	0.1 - 1
METHYL ISOBUTYL KETONE	108-10-1	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: 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 or rash occurs: Get medical

advice/attention. 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: Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

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 May cause allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Note to physicians

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Use dry chemical, Foam

Unsuitable extinguishing media

None

Specific hazards arising from the chemical

None in particular.

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 Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes and skin.

Use personal protective equipment as required.

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.

Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel Methods for cleaning up

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

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing Advice on safe handling

> 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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a well-ventilated place. Keep cool.

Incompatible materials Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
KAOLIN	TWA: 2 mg/m³ particulate matter	TWA: 15 mg/m³ total dust	TWA: 10 mg/m ³ total dust
1332-58-7	containing no asbestos and <1%	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable dust
	crystalline silica, respirable	(vacated) TWA: 10 mg/m³ total	
	particulate matter	dust	
		(vacated) TWA: 5 mg/m³ respirable	
FTHANOL	0751 4000	fraction	IDIII 0000
ETHANOL 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm
04-17-5		(vacated) TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³
		(vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	TWA: 1900 mg/m ⁹
2-PROPANOL	STEL: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm
67-63-0	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm
0. 00 0	1 177 % 200 pp.m	(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m ³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	· ·
CRYSTALLINE SILICA	TWA: 0.025 mg/m³ respirable	TWA: 50 μg/m ³ TWA: 50 μg/m ³	IDLH: 50 mg/m ³ respirable dust
14808-60-7	particulate matter	excludes construction work,	TWA: 0.05 mg/m³ respirable dust
		agricultural operations, and	
		exposures that result from the	
		processing of sorptive clays	
		(vacated) TWA: 0.1 mg/m ³	
		respirable dust	
		: (250)/(%SiO2 + 5) mppcf TWA respirable fraction	
		: (10)/(%SiO2 + 2) mg/m ³ TWA	
		respirable fraction	
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7	TVVA. 10 mg/m	(vacated) TWA: 10 mg/m³ total	TWA: 2.4 mg/m ³ CIB 63 fine
10100 01 7		dust	TWA: 0.3 mg/m³ CIB 63 ultrafine,
			including engineered nanoscale
CARBON BLACK	TWA: 3 mg/m ³ inhalable particulate	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4	matter	(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m³ Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH
METHYL ISOBUTYL KETONE	STEL: 75 ppm	TWA: 100 ppm	IDLH: 500 ppm
108-10-1	TWA: 20 ppm	TWA: 410 mg/m ³	TWA: 50 ppm
		(vacated) TWA: 50 ppm	TWA: 205 mg/m ³
		(vacated) TWA: 205 mg/m ³	STEL: 75 ppm
		(vacated) STEL: 75 ppm	STEL: 300 mg/m ³
		(vacated) STEL: 300 mg/m ³	

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 protectionUse 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

Air = 1

9.1. Information on basic physical and chemical properties

Physical state Paste Liquid
Appearance Black
Odor Alcohol

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Melting point / freezing pointNo information availableBoiling point / boiling range82 °C / 180 °F

Flash point No information available ASTM D 4359
Evaporation rate 7.7 Ether = 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure

No information available
No information available
33 mm Hg @ 68°F

Vapor density 2.0

Relative density 2.0

Water solubility Partially soluble

No information available Solubility(ies) No information available Partition coefficient **Autoignition temperature** No information available **Decomposition temperature** No information available No information available Kinematic viscosity Dynamic viscosity No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening point

Molecular weight

No information available
No information available

VOC Content (%) 10.978

DensityNo information availableBulk densityNo information availableSADT (self-accelerating)No information available

decomposition temperature)

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents

Hazardous Decomposition Products

Carbon oxides Aldehydes Carboxylic acids

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 cause skin irritation and/or dermatitis. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons.

Ingestion Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
KAOLIN	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
1332-58-7			
ETHANOL	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			
2-PROPANOL	5050 mg/kg	12800 mg/kg	= 72600 mg/m ³ (Rat) 4 h
67-63-0			
TITANIUM DIOXIDE	> 10000 mg/kg (Rat)	-	-
13463-67-7			
CARBON BLACK	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
1333-86-4			
METHYL ISOBUTYL KETONE	= 2080 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	2000 - 4000 ppm (Rat) 4 h
108-10-1			

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.

CarcinogenicityThe table below indicates whether each agency has listed any ingredient as a carcinogen.

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Chemical Name	ACGIH	IARC	NTP	OSHA
ETHANOL 64-17-5	А3	Group 1	Known	X
CRYSTALLINE SILICA 14808-60-7	A2	Group 1	Known	Х
TITANIUM DIOXIDE 13463-67-7	-	Group 2B	-	X
CARBON BLACK 1333-86-4	А3	Group 2B	-	X
METHYL ISOBUTYL KETONE 108-10-1	А3	Group 2B	<u>-</u>	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly 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 Blood, Central nervous system, Eyes, Liver, Reproductive System, Respiratory system,

Skin, Thyroid, Lungs.

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

ATEmix (oral) 7016 mg/kg ATEmix (dermal) 58017 mg/kg ATEmix (inhalation-dust/mist) 102.2 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.042 % 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
ETHANOL	-0.32
64-17-5	
2-PROPANOL	0.05
67-63-0	
METHYL ISOBUTYL KETONE	1.19
108-10-1	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number U154 U161

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	
ETHANOL	Toxic	
64-17-5	Ignitable	
2-PROPANOL	Toxic	
67-63-0	Ignitable	

14. TRANSPORT INFORMATION

DOT

Proper shipping name: Not regulated

<u>IATA</u>

Proper shipping name: Not regulated

MDG

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Not determined **ENCS IECSC** Complies **KECL** Not determined **PICCS** Complies Complies **AICS**

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
2-PROPANOL - 67-63-0	1.0	
METHYL ISOBUTYL KETONE - 108-10-1	0.1	

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
METHYL ISOBUTYL KETONE	5000 lb	-	RQ 5000 lb final RQ
108-10-1			RQ 2270 kg final RQ

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
CRYSTALLINE SILICA 14808-60-7	*Carcinogen
TITANIUM DIOXIDE 13463-67-7	*Carcinogen (airborne, unbound particles of respirable size)
METHANOL 67-56-1	Developmental
CARBON BLACK 1333-86-4	*Carcinogen (airborne, unbound particles of respirable size)
METHYL ISOBUTYL KETONE 108-10-1	Carcinogen Developmental

- *The asterisked chemical(s) listed are not subject to Proposition 65 because they are not airborne in the finished product
- Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage
- Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
KAOLIN 1332-58-7	X	X	X
ETHANOL 64-17-5	Х	Х	Х
2-PROPANOL 67-63-0	X	X	X
CRYSTALLINE SILICA 14808-60-7	X	X	X
TITANIUM DIOXIDE 13463-67-7	Х	Х	Х
METHANOL 67-56-1	X	X	X
CARBON BLACK 1333-86-4	X	X	X
METHYL ISOBUTYL KETONE 108-10-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

WHMIS Hazard Class

D2B - Toxic materials

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

NFPA Health hazards 2 Flammability 1 Instability 0

Health hazards 2 Flammability 1 Physical hazards 0 Personal protection B

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

Revision Date 02-May-2020

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End of Safety Data Sheet