S Permatex

SAFETY DATA SHEET

Revision Date 07-Apr-2015 Version 1

1. IDENTIFICATION

Product identifier

Product Name GASKET SEALANT & DRESSING 5 GR

Other means of identification

Product Code 09174 **Synonyms** None

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 <u>Distributor</u>

ITW PermatexITW Permatex Canada10 Columbus Blvd.35 Brownridge Road, Unit 1Hartford, CT 06106 USAHalton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

Company Phone Number 1-87-Permatex

(877) 376-2839

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)

Acute toxicity - Oral	Category 3
Skin sensitization	Category 1
Carcinogenicity	Category 2
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Toxic if swallowed

May cause an allergic skin reaction Suspected of causing cancer Flammable liquid and vapor



Appearance Black Physical state 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

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

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

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Harmful to aquatic life with long lasting effects

Unknown acute toxicity 77.3026% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
TALC	14807-96-6	15 - 40	*
ROSIN POLYMER	68152-50-1	10 - 30	*
POLYGLYCOL OLEATE	9004-96-0	10 - 30	*

CASTOR OIL	68187-84-8	5 - 10	*
ROSIN	8050-09-7	3 - 7	*
2-PROPANOL	67-63-0	3 - 7	*
ETHANOL	64-17-5	1 - 5	*
TITANIUM DIOXIDE	13463-67-7	1 - 5	*
METHANOL	67-56-1	0.1 - 1	*
CARBON BLACK	1333-86-4	0.1 - 1	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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 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 aiderUse personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

Flammable.

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. Remove all sources of ignition.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. 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 (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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. Keep away from

heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product. 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.

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).

Incompatible materials Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TALC	TWA: 2 mg/m³ particulate matter	(vacated) TWA: 2 mg/m3 respirable	IDLH: 1000 mg/m ³
14807-96-6	containing no asbestos and <1%	dust <1% Crystalline silica,	TWA: 2 mg/m³ containing no
	crystalline silica, respirable fraction	containing no Asbestos	Asbestos and <1% Quartz
		TWA: 20 mppcf if 1% Quartz or	respirable dust
		more, use Quartz limit	
ROSIN	-	(vacated) TWA: 0.1 mg/m ³	TWA: 0.1 mg/m³ Formaldehyde
8050-09-7		Formaldehyde	
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
		(vacated) TWA: 400 ppm	TWA: 980 mg/m ³
		(vacated) TWA: 980 mg/m³	STEL: 500 ppm
		(vacated) STEL: 500 ppm	STEL: 1225 mg/m ³
		(vacated) STEL: 1225 mg/m ³	
ETHANOL	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	
TITANIUM DIOXIDE	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m³ total dust	-

METHANOL 67-56-1	STEL: 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m³ STEL: 250 ppm STEL: 325 mg/m³
CARBON BLACK 1333-86-4	TWA: 3 mg/m³ inhalable fraction	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

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 gloves and protective clothing.

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

Butyl acetate = 1

Information on basic physical and chemical properties

Physical state Liquid
Appearance Black
Odor Alcohol

Odor threshold No information available

Property Values Remarks • Method

pH No information available
Melting point / freezing point
Boiling point / boiling range
Flash point
No information available
No information available
82 °C / 180 °F
58 °C / 136 °F

Flash point 58 °C Evaporation rate 58 °C

Flammability (solid, gas)

No information available

Flammability Limit in Air

Upper flammability limit: 12.0% Lower flammability limit: 2.0%

Vapor pressure33 mm Hg @ 68°FVapor densityNo information available

Relative density 1.3

Water solubility Partially soluble

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

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Kinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other Information

Softening point No information available Molecular weight No information available

VOC Content (%) 10.9%

DensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

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 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. May cause sensitization by skin contact.

Ingestion Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ROSIN 8050-09-7	= 3 mg/kg (Rat) = 7600 mg/kg (Rat)	> 2500 mg/kg (Rabbit)	= 1.5 mg/L (Rat)4 h
2-PROPANOL 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m³(Rat) 4 h
ETHANOL 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
TITANIUM DIOXIDE > 10000 mg/kg (Rat) 13463-67-7		-	-
METHANOL 67-56-1	= 6200 mg/kg (Rat)	= 15800 mg/kg (Rabbit)	= 22500 ppm (Rat)8 h = 64000 ppm (Rat)4 h
CARBON BLACK 1333-86-4	> 15400 mg/kg (Rat)	> 3 g/kg(Rabbit)	-

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 mutagenicityNo information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
TALC 14807-96-6	-	Group 3	-	-
2-PROPANOL 67-63-0	-	Group 1	-	Х
ETHANOL 64-17-5	A3	Group 1	Known	Х
TITANIUM DIOXIDE 13463-67-7	-	Group 2B	-	Х
CARBON BLACK 1333-86-4	A3	Group 2B	-	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen 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, Central Vascular System (CVS), Eyes, Liver, Lungs,

Reproductive System, Respiratory system, Skin, Thyroid.

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

ATEmix (oral) 10 mg/kg ATEmix (dermal) 4465 mg/kg ATEmix (inhalation-dust/mist) 40.8 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

51.345% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
TALC	-	100: 96 h Brachydanio rerio g/L	-
14807-96-6		LC50 semi-static	
ROSIN	400: 72 h Desmodesmus	-	3.8 - 5.4: 48 h Daphnia magna mg/L
8050-09-7	subspicatus mg/L EC50		EC50
2-PROPANOL	1000: 96 h Desmodesmus	11130: 96 h Pimephales promelas	13299: 48 h Daphnia magna mg/L
67-63-0	subspicatus mg/L EC50 1000: 72 h	mg/L LC50 static 9640: 96 h	EC50
	Desmodesmus subspicatus mg/L	Pimephales promelas mg/L LC50	
	EC50	flow-through 1400000: 96 h	
		Lepomis macrochirus µg/L LC50	
ETHANOL	-	12.0 - 16.0: 96 h Oncorhynchus	9268 - 14221: 48 h Daphnia magna
64-17-5		mykiss mL/L LC50 static 100: 96 h	mg/L LC50 2: 48 h Daphnia magna
		Pimephales promelas mg/L LC50	mg/L EC50 Static 10800: 24 h
		static 13400 - 15100: 96 h	Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50	
		flow-through	

METHANOL 67-56-1	-	28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h	-
		Oncorhynchus mykiss mL/L LC50 static	
CARBON BLACK 1333-86-4	-	-	5600: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
2-PROPANOL	0.05
67-63-0	
ETHANOL	-0.32
64-17-5	
METHANOL	-0.77
67-56-1	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesThis 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

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
METHANOL	-	Included in waste stream:	-	U154
67-56-1		F039		

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
2-PROPANOL	Toxic
67-63-0	Ignitable
ETHANOL 64-17-5	Toxic Ignitable
METHANOL	Toxic
67-56-1	Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no 1866

Proper shipping name: Resin, solution, Limited Quantity (LQ)

Hazard Class 3
Packing Group III
Emergency Response Guide 127

Number

IATA

UN/ID no ID 8000

Proper shipping name: Consumer commodity

Hazard Class 9 ERG Code 9L

IMDG

<u>UN/ID</u> no 1866

Proper shipping name: Resin, solution, Limited Quantity (LQ)

Hazard Class 3
Packing Group III
EmS-No F-E, S-E

15. REGULATORY INFORMATION

International Inventories

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

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	
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, 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)
METHANOL	5000 lb	-	RQ 5000 lb final RQ
67-56-1			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	
TITANIUM DIOXIDE - 13463-67-7	Carcinogen	
METHANOL - 67-56-1	Developmental	
CARBON BLACK - 1333-86-4	Carcinogen	
METHYL ISOBUTYL KETONE - 108-10-1	Carcinogen	
	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
TALC 14807-96-6	Х	Х	X
2-PROPANOL 67-63-0	Х	Х	Х
ETHANOL 64-17-5	Х	X	X
TITANIUM DIOXIDE 13463-67-7	Х	Х	X
WATER 7732-18-5	-	-	Х
METHANOL 67-56-1	Х	Х	Х
CARBON BLACK 1333-86-4	Х	Х	Х
METHYL ISOBUTYL KETONE 108-10-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPA Health hazards 2 Flammability 2 Instability 0 HMIS Health hazards 2 Flammability 2 Physical hazards 0 Personal protection B

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

Revision Date 07-Apr-2015

Disclaimer

The information provided in this Material 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