



Material Safety Data Sheet

Revision Date 25-Mar-2011

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 9418
Product name Permatex Form-A-Gasket
Recommended Use Adhesive / Sealant
Supplier Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview Irritant.

Aggravated Medical Conditions

Pre-existing skin, eye, or respiratory conditions may be aggravated by exposure to this product.

Principal Routes of Exposure

Eyes. Skin. Inhalation. Ingestion.

Potential health effects

Eyes Contact with eyes may cause irritation. Redness.
Skin Sensitization. Extreme overexposure may cause. Skin Irritation. Redness.
Inhalation Extreme overexposure may cause. Headaches. Dizziness. Nausea. Respiratory irritation.
Ingestion May cause the following effects. Headache. Dizziness. Nausea.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Kaolinite, Hydrous Aluminum Silicate	1332-58-7	50-60
Rosin	8050-09-7	20-30
Isopropyl alcohol	67-63-0	10-20
Vegetable Oil	68187-84-8	1-10
Lecithin	8002-43-5	1-10
Titanium dioxide	13463-67-7	1-10

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Seek medical attention if irritation persists.
Ingestion Do not induce vomiting. Give victim a glass of water or milk. Seek medical attention immediately.
Inhalation Remove to fresh air. Provide oxygen or artificial respiration if necessary. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point °C No data available
Flash point °F No data available
Method Tag Closed Cup

Autoignition temperature °C No data available
Autoignition temperature °F No data available

Flammability Limits (% in Air)
Upper 12
Lower 2

Suitable extinguishing media
Carbon dioxide. Dry chemical. Foam.

Special protective equipment for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Fire and Explosion Hazards

Containers exposed to extreme heat may burst. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Hazardous decomposition products

See Section 10.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES**Methods for cleaning up**

Eliminate all sources of ignition. Ventilate area to maintain exposure below permissible exposure limits. Soak up with inert absorbent material. Collect and contain for disposal. Flush surfaces with isopropyl alcohol and rinse with soap water.

7. HANDLING AND STORAGE**Handling**

Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin and eyes. Avoid breathing vapors. Keep container closed when not in use.

Storage

Store in temperatures below 120 degrees F. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Kaolinite, Hydrous Aluminum Silicate	15 mg/m ³ total 5 mg/m ³	-	2 mg/m ³	-
Rosin	-	-	-	-
Isopropyl alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm
Vegetable Oil	-	-	-	-
Lecithin	-	-	-	-
Titanium dioxide	15 mg/m ³ total	-	10 mg/m ³	-

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hand Protection

Rubber gloves. Plastic gloves.

Eye protection

Safety glasses.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Paste
Color	Red brown
Odor	Alcoholic

Odor Threshold	No information available
pH	Not Applicable
Specific Gravity	1.5
Vapor pressure	33 mmHg @ 20°C (68°F)
Vapor density	2.07 (air=1)
Evaporation Rate	7.7 (ether = 1)
Water solubility	No data available
VOC Content	15.4%; 231 g/L
Partition Coefficient (n-octanol/water)	No data available
Boiling point/range °C	82
Boiling point/range °F	180
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	No data available
Flash point °F	No data available

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions.

Conditions to avoid

Heat, flames and sparks. Avoid dust formation.

Incompatibility

Strong oxidizers.

Hazardous Decomposition Products

Aldehydes. Carbon oxides. Acetic acid. organic acids .

Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Kaolinite, Hydrous Aluminum Silicate</i> 1332-58-7	-	-	-
<i>Rosin</i> 8050-09-7	3 mg/kg	2500 mg/kg	-
<i>Isopropyl alcohol</i> 67-63-0	4396 mg/kg	12800 mg/kg 12870 mg/kg	72.6 mg/L
<i>Vegetable Oil</i> 68187-84-8	-	-	-
<i>Lecithin</i> 8002-43-5	-	-	-
<i>Titanium dioxide</i> 13463-67-7	10000 mg/kg	-	-

Synergistic Products

None known

Potential health effects**Sensitization**

None known

Chronic toxicity	None known
Mutagenic effects	None known
Teratogenic effects	None known
Reproductive toxicity	None known
Target Organ Effects	See Section 2
Carcinogenic effects	See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Kaolinite, Hydrous Aluminum Silicate	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Rosin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl alcohol	Listed	Not Listed	Not Listed	Not Listed	Not Listed
Vegetable Oil	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Lecithin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Titanium dioxide	Listed	Group 2B	Not Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

Rosin

Microtox Data

Photobacterium phosphoreum EC50=31.5 mg/L (30 min)

Water Flea Data

Daphnia magna hEC50 48 (3.8 - 5.4 mg/L)

Isopropyl alcohol

Microtox Data

Photobacterium phosphoreum EC50=35390 mg/L (5 min)

Water Flea Data

Daphnia magna hEC50 48 (13299 mg/L)

13. DISPOSAL CONSIDERATIONS

Disposal Information

As supplied, this product is classified as non-hazardous waste according to RCRA regulations. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT

Not Regulated

TDG

Not Regulated

15. REGULATORY INFORMATION

US EPA SARA 313

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Kaolinite, Hydrous Aluminum Silicate	Not Listed	Listed	Not Listed
Rosin	Not Listed	Not Listed	Not Listed
Isopropyl alcohol	Listed	Listed	Not Listed
Vegetable Oil	Not Listed	Not Listed	Not Listed
Lecithin	Not Listed	Not Listed	Not Listed
Titanium dioxide	Not Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Kaolinite, Hydrous Aluminum Silicate	X	X	-	X
Rosin	X	X	-	X
Isopropyl alcohol	X	X	-	X
Vegetable Oil	X	X	-	X
Lecithin	X	X	-	X
Titanium dioxide	X	X	-	X

CPR

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA

Health - 2
Flammability - 1
Reactivity - 0

HMS

Health - 2
Flammability - 1
Physical Hazard - 0

Prepared By

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Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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Product name **Permatex
Form-A-Gasket**
