



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS
which includes the amended Hazardous Products Act (HPA) and the Hazardous Products
Regulation (HPR)

Revision Date 03-Mar-2026

Version 2

1. Identification

Product identifier

Product Name 34A VALVE GRINDING COMPOUND 1.5OZ

Other means of identification

Product Code 80036

Synonyms CAN Item Number 58875

Recommended use of the chemical and restrictions on use

Recommended Use Grinding compound

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address

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

May Also Be Distributed by:

ITW Permatex Canada
101-2360 Bristol Circle
Oakville, ON Canada L6H 6M5
Telephone: (800) 924-6994

E-mail address mail@permatex.com

Emergency telephone number

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924
International Emergency:
00+1+ 813-248-0585
Contract Number: MIS0003453

24-hour emergency phone number No information available

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Carcinogenicity	Category 1B

Label elements

Contains SILICON CARBIDE

**Danger****Hazard statements**

Harmful if swallowed.
May cause cancer.

Precautionary Statements - Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection and face protection.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Unknown acute toxicity

43.602 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
43.602 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
58.152 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
58.152 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
43.602 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Other Information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms CAN Item Number 58875.

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
SILICON CARBIDE	409-21-2	15-40%	-	-
ETHYLENE GLYCOL	107-21-1	10-30%	-	-

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
Effects of Exposure	May cause cancer.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
---------------------------	------------------------

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Small Fire	In case of fire, use water spray, foam, dry chemical, or CO ₂ .
Large Fire	In case of fire, use water spray, foam, dry chemical, or CO ₂ .
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation.
Other information	Refer to protective measures listed in Sections 7 and 8.

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	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

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. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
SILICON CARBIDE 409-21-2	TWA: 10 mg/m ³ nonfibrous, inhalable particulate matter particulate matter containing no Asbestos and <1% Crystalline silica TWA: 3 mg/m ³ nonfibrous, respirable particulate matter particulate matter containing no Asbestos and <1% Crystalline silica TWA: 0.1 fiber/cm ³ respirable fibers, including whiskers length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ ; total dust TWA: 5 mg/m ³ ; respirable dust
ETHYLENE GLYCOL 107-21-1	TWA: 25 ppm vapor fraction STEL: 50 ppm vapor fraction STEL: 10 mg/m ³ inhalable particulate matter, aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m ³	-

Chemical name	Alberta	British Columbia	Ontario	Quebec
SILICON CARBIDE 409-21-2	TWA: 10 mg/m ³ ; total particulate TWA: 3 mg/m ³ ; respirable particulate TWA: 0.1 fibre/cm ³ ;	TWA: 10 mg/m ³ ; inhalable TWA: 3 mg/m ³ ; respirable TWA: 0.1 fibre/cm ³ ;	TWA: 10 mg/m ³ ; inhalable fraction TWA: 3 mg/m ³ ; respirable fraction TWA: 0.1 fibre/cm ³ ; respirable fraction	TWAEV: 10 mg/m ³ ; total dust TWAEV: 3 mg/m ³ ; respirable dust
ETHYLENE GLYCOL 107-21-1	Ceiling: 100 mg/m ³ ;	TWA: 10 mg/m ³ ; total; aerosol only STEL: 20 mg/m ³ ; total; aerosol only Ceiling: 100 mg/m ³ ; total; aerosol only Ceiling: 50 ppm; vapour	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m ³ ; inhalable particulate matter, aerosol only	Ceiling: 50 ppm; mist and vapour Ceiling: 127 mg/m ³ ; mist and vapour

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
SILICON CARBIDE	TWA: 0.1 fiber/cm ³ ; respirable fibers, including whiskers TWA: 10 mg/m ³ ; nonfibrous, inhalable particulate matter TWA: 3 mg/m ³ ; nonfibrous, respirable particulate matter	TWA: 10 mg/m ³ ; nonfibrous, inhalable fraction TWA: 3 mg/m ³ ; nonfibrous, respirable fraction TWA: 0.1 fiber/cm ³ ; respirable fibers	TWA: 0.1 fiber/cm ³ ; respirable fibers, including whiskers TWA: 10 mg/m ³ ; nonfibrous, inhalable particulate matter TWA: 3 mg/m ³ ; nonfibrous, respirable particulate matter	TWA: 0.1 fiber/cm ³ ; respirable fibers, including whiskers TWA: 10 mg/m ³ ; nonfibrous, inhalable particulate matter TWA: 3 mg/m ³ ; nonfibrous, respirable particulate matter
ETHYLENE GLYCOL	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m ³ ; inhalable particulate matter, aerosol only	Ceiling: 100 mg/m ³ ; aerosol only	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m ³ ; inhalable particulate matter, aerosol only	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m ³ ; inhalable particulate matter, aerosol only

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
SILICON CARBIDE	TWA: 10 mg/m ³ ; inhalable fraction TWA: 3 mg/m ³ ; respirable fraction TWA: 0.1 fibre/cm ³ ; respirable fibres STEL: 20 mg/m ³ ; inhalable fraction STEL: 6 mg/m ³ ; respirable fraction	TWA: 0.1 fiber/cm ³ ; respirable fibers, including whiskers TWA: 10 mg/m ³ ; nonfibrous, inhalable particulate matter TWA: 3 mg/m ³ ; nonfibrous, respirable particulate matter	TWA: 0.1 fibre/cm ³ ; fibrous, respirable fibres TWA: 10 mg/m ³ ; nonfibrous, inhalable fraction TWA: 3 mg/m ³ ; nonfibrous, respirable fraction STEL: 20 mg/m ³ ; nonfibrous, inhalable fraction STEL: 6 mg/m ³ ; nonfibrous, respirable fraction Designated Chemical Substance	TWA: 30 mppcf; TWA: 10 mg/m ³ ; STEL: 20 mg/m ³ ;
ETHYLENE GLYCOL	Ceiling: 100 mg/m ³ ; aerosol	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m ³ ; inhalable particulate matter, aerosol only	Ceiling: 100 mg/m ³ ; aerosol	TWA: 10 mg/m ³ ; particulate TWA: 100 ppm; vapour TWA: 250 mg/m ³ ; vapour STEL: 10 ppm; particulate STEL: 20 mg/m ³ ; particulate STEL: 125 ppm; vapour STEL: 325 mg/m ³ ; vapour

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).

Hand protection

Wear suitable gloves.

Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Use appropriate respiratory protection. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Paste / Gel Liquid
Appearance	Gray
Color	Gray
Odor	None
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	> 100 °C / 212 °F	
Flash point	> 95 °C / 203 °F	
Evaporation rate	<1	Butyl acetate = 1
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	
Vapor density	>1	Air = 1
Relative density	1.36	g/mL
Water solubility	Soluble in water	No information available
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Particle characteristics		
Particle Size	No data available	
Particle Size Distribution	No data available	
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC content	<15%	
Density	No information available	
Bulk density	No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.

Hazardous polymerization	No information available.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	1,938.10 mg/kg
ATEmix (dermal)	41,087.20 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/L
ATEmix (inhalation-dust/mist)	14.50 mg/L

Unknown acute toxicity

- 43.602 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 43.602 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 58.152 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 58.152 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 43.602 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHYLENE GLYCOL 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

Chemical name	ACGIH	IARC	NTP	OSHA
SILICON CARBIDE 409-21-2	A2 - Suspected Human Carcinogen	Group 2A - Probably carcinogenic to humans	-	Present
ETHYLENE GLYCOL 107-21-1	A4 - Not Classifiable as a Human Carcinogen	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected human carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably carcinogenic to humans

Occupational Safety and Health Administration of the US Department of Labor

X - Present

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Neurological effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ETHYLENE GLYCOL 107-21-1	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =41000mg/L (96h, Oncorhynchus mykiss) LC50: 14 - 18mL/L (96h, Oncorhynchus mykiss) LC50: =27540mg/L (96h, Lepomis macrochirus) LC50: =40761mg/L (96h, Oncorhynchus mykiss) LC50: 40000 - 60000mg/L (96h, Pimephales promelas) LC50: =16000mg/L (96h, Poecilia reticulata)	-	EC50: =46300mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulative potential

Component Information

Chemical name	Partition coefficient
ETHYLENE GLYCOL 107-21-1	-1.36

Other adverse effects No information available.

13. Disposal considerations**Waste treatment methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number Waste designations and classifications should be determined by the end user based on the application for which the product was used.

14. Transport information

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	Not Determined

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 Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

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 %
ETHYLENE GLYCOL - 107-21-1	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
ETHYLENE GLYCOL 107-21-1	5000 lb / kg (final RQ)	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical name	California Proposition 65
SILICON CARBIDE - 409-21-2	*Carcinogen
ETHYLENE GLYCOL - 107-21-1	Developmental

*The asterisked chemical listed is not subject to Proposition 65 because it is not present in whisker form in the finished product.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
WATER 7732-18-5	-	-	X
SILICON CARBIDE 409-21-2	X	X	X
ETHYLENE GLYCOL 107-21-1	X	X	X
TRIETHANOLAMINE 102-71-6	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

