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 15-Oct-2024 **Version** 1

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 CO2.
Large Fire In case of fire, use water spray, foam, dry chemical, or CO2.

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 protection 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 Pick up and transfer to properly labeled containers.

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/m³ nonfibrous, inhalable particulate matter particulate matter containing no Asbestos and <1% Crystalline silica TWA: 3 mg/m³ nonfibrous, respirable particulate matter particulate matter containing no Asbestos and <1% Crystalline silica TWA: 0.1 fiber/cm3 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/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 10 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³; total dust TWA: 5 mg/m³; respirable dust
ETHYLENE GLYCOL 107-21-1	TWA: 25 ppm vapor fraction STEL: 50 ppm vapor fraction STEL: 10 mg/m³ inhalable particulate matter, aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m³	-

Chemical name	Alberta	British Columbia	Ontario	Quebec
SILICON CARBIDE 409-21-2	TWA: 10 mg/m³; total particulate TWA: 3 mg/m³; respirable particulate TWA: 0.1 fibre/cm3;	TWA: 10 mg/m³; inhalable TWA: 3 mg/m³; respirable TWA: 0.1 fibre/cm3;	TWA: 10 mg/m³; inhalable fraction TWA: 3 mg/m³; respirable fraction TWA: 0.1 fibre/cm3; respirable fraction	TWAEV: 10 mg/m³; total dust TWAEV: 3 mg/m³; respirable dust
ETHYLENE GLYCOL 107-21-1	Ceiling: 100 mg/m³;	TWA: 10 mg/m³; total; aerosol only STEL: 20 mg/m³; total; aerosol only Ceiling: 100 mg/m³; total; aerosol only Ceiling: 50 ppm; vapour	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m³; inhalable particulate matter, aerosol only	Ceiling: 50 ppm; mist and vapour Ceiling: 127 mg/m³; mist and vapour

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
SILICON CARBIDE	TWA: 0.1 fiber/cm3; respirable fibers. including whiskers TWA: 10 mg/m³; nonfibrous, inhalable particulate matter TWA: 3 mg/m³; nonfibrous, respirable particulate matter	TWA: 10 mg/m³; nonfibrous, inhalable fraction TWA: 3 mg/m³; nonfibrous, respirable fraction TWA: 0.1 fiber/cm3; respirable fibers	TWA: 0.1 fiber/cm3; respirable fibers, including whiskers TWA: 10 mg/m³; nonfibrous, inhalable particulate matter TWA: 3 mg/m³; nonfibrous, respirable particulate matter	TWA: 0.1 fiber/cm3; respirable fibers, including whiskers TWA: 10 mg/m³; nonfibrous, inhalable particulate matter TWA: 3 mg/m³; nonfibrous, respirable particulate matter
ETHYLENE GLYCOL	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m³; inhalable particulate matter, aerosol only	Ceiling: 100 mg/m³; aerosol only	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m³; inhalable particulate matter, aerosol only	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m³; inhalable particulate matter, aerosol only

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
SILICON CARBIDE	TWA: 10 mg/m³; inhalable fraction TWA: 3 mg/m³; respirable fraction TWA: 0.1 fibre/cm3; respirable fibres STEL: 20 mg/m³; inhalable fraction STEL: 6 mg/m³; respirable fraction	TWA: 0.1 fiber/cm3; respirable fibers, including whiskers TWA: 10 mg/m³; nonfibrous, inhalable particulate matter TWA: 3 mg/m³; nonfibrous, respirable particulate matter	TWA: 0.1 fibre/cm3; fibrous, respirable fibres TWA: 10 mg/m³; nonfibrous, inhalable fraction TWA: 3 mg/m³; nonfibrous, respirable fraction STEL: 20 mg/m³; nonfibrous, inhalable fraction STEL: 6 mg/m³; nonfibrous, respirable fraction Designated Chemical Substance	TWA: 30 mppcf; TWA: 10 mg/m³; STEL: 20 mg/m³;
ETHYLENE GLYCOL	Ceiling: 100 mg/m³; aerosol	TWA: 25 ppm; vapor fraction STEL: 50 ppm; vapor fraction STEL: 10 mg/m³; inhalable particulate matter, aerosol only	Ceiling: 100 mg/m³; aerosol	TWA: 10 mg/m³; particulate TWA: 100 ppm; vapour TWA: 250 mg/m³; vapour STEL: 10 ppm; particulate STEL: 20 mg/m³; particulate STEL: 125 ppm; vapour STEL: 325 mg/m³; 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.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Thermal hazards No information available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state	Paste / Gel Liquid
Appearance	Gray
Color	Gray
Odor	Slight
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
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	
Water solubility	Soluble in water None known 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	No information available
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

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.

Bioaccumulation

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	Does not comply
ENCS	Does not comply
IECSC	Complies
KECI	Complies
PICCS	Complies
AICS	Complies
NZIoC	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 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

16. Other information

NFPA	**Health hazards**	1	**Flammability**	1	**Instability** 0	**Special hazards**	-
HMIS	**Health hazards**	1 *	**Flammability**	1	**Physical hazards** 0	**Personal protection**	X

Chronic Hazard Star Legend ** = Chronic Health Hazard*

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

Legend
SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Key literature references and sources for data used to compile the SDS
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Revision Date 15-Oct-2024

Revision Note No information available.

Disclaimer

The information provided in this 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.