SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008

Revision Date 14-Oct-2024 **Version** 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code 80037

Product Name PX VALVE GRIND COMPOUND 3 OZ.

Other means of identification

Unique Formula Identifier (UFI) 83RH-X0WN-C00T-5R8R

Mixture. Contains SILICON CARBIDE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Grinding compound

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

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

Only Representative (OR)
ITW Permatex, Inc.
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
customerservice.shannon@itwpp.com

For further information, please contact

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

E-mail address: mail@permatex.com

Non-Emergency Telephone Number 866-732-9502

1.4. Emergency telephone number

24-hour emergency phone number EU Member States information as follows:

24-hour emergency phone number - §45 - (EC)1272/2008	
Europe	**112**
Austria	01 406 43 43

Belgium	070 245 245
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293/ +420 224 915 402
Denmark	+ 45 8212 1212
Estonia	16662/ (+372) 7943 794
Finland	0800 147 111/ 09 471 977
France	+33 (0)1 45 42 59 59
Germany	+49 228 192 40
Greece	(003) 2107793777
Hungary	+36 80 201 199
Iceland	543 2222
Ireland	01 809 2166
Italy	0382-24444
Latvia	+371 67042473
Liechtenstein	01 406 43 43
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	112
Netherlands	+31 (0)88 755 8000
Norway	22 59 13 00
Poland	112
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Carcinogenicity	Category 1B - (H350)

2.2. Label elements

Contains SILICON CARBIDE

Signal word
Danger

Hazard statements
H302 - Harmful if swallowed.
H350 - May cause cancer.

Precautionary Statements - EU (§28, 1272/2008)
P201 - Obtain special instructions before use.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P501 - Dispose of contents/ container to an approved waste disposal plant.

Unknown acute toxicity
58.152 % of the mixture consists of ingredient(s) of 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).

Unknown aquatic toxicity
Contains 1.426 % of components with unknown hazards to the aquatic environment.

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

Other hazards No information available.

PBT & vPvB The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
SILICON CARBIDE 409-21-2	15-40%	No data available	206-991-8 (014-048-00-5)	Carc. 1B (H350i)	-	-	-	-
ETHYLENE GLYCOL 107-21-1	10-30%	No data available	203-473-3 (603-027-00-1)	Acute Tox. 4 (H302)	-	-	-	-
CARBOMER 9003-01-4	0.1-1%	No data available	-	No data available	-	-	-	-
TRIETHANOLAMINE 102-71-6	0.1-1%	No data available	203-049-8	No data available	-	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
ETHYLENE GLYCOL 107-21-1	4700	10600	3.75	No data available	No data available
CARBOMER 9003-01-4	2500	2000	No data available	No data available	No data available
TRIETHANOLAMINE 102-71-6	4190	20000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Section 4: First aid measures

4.1. 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. In the case of skin irritation or allergic reactions see a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure May cause cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

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.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
Hazardous combustion products	No information available

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

6.3. 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	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. 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.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. 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.
Storage class (TRGS 510)	Storage class 6.1C.

7.3. Specific end use(s)

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
SILICON CARBIDE 409-21-2	-	TWA: 5 mg/m³ STEL 10 mg/m³	TWA: 100000 mg/m³ TWA: 0.1 fiber/cm3	TWA: 5.0 mg/m³	TWA: 10 mg/m³ TWA: 4 mg/m³
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 10 ppm TWA: 26 mg/m³ STEL 20 ppm STEL 52 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 52 mg/m³ TWA: 20 ppm STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*
TRIETHANOLAMINE 102-71-6	-	TWA: 0.8 ppm TWA: 5 mg/m³ STEL 1.6 ppm STEL 10 mg/m³ S+	TWA: 5 mg/m³	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
SILICON CARBIDE 409-21-2	-	-	-	TWA: 10 mg/m³ TWA: 5 mg/m³	TWA: 0.1 fiber/cm3
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 50 mg/m³ Sk* Ceiling: 100 mg/m³	TWA: 10 ppm TWA: 26 mg/m³ TWA: 10 mg/m³ STEL: 104 mg/m³ STEL: 40 ppm STEL: 20 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 50 mg/m³ STEL: 40 ppm STEL: 100 mg/m³ Sk*
TRIETHANOLAMINE 102-71-6	-	TWA: 5 mg/m³ Sk* Ceiling: 10 mg/m³	TWA: 0.5 ppm TWA: 3.1 mg/m³ STEL: 1 ppm STEL: 6.2 mg/m³	TWA: 5 mg/m³ STEL: 10 mg/m³ S+	TWA: 5 mg/m³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
SILICON CARBIDE 409-21-2	TWA: 10 mg/m³	TWA: 1.25 mg/m³ TWA: 10 mg/m³	-	TWA: 10 mg/m³ TWA: 5 mg/m³	-
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 10 ppm TWA: 26 mg/m³ Sk*	TWA: 10 ppm TWA: 26 mg/m³ Peak: 20 ppm Peak: 52 mg/m³ Sk*	TWA: 50 ppm TWA: 125 mg/m³ STEL: 50 ppm STEL: 125 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*
TRIETHANOLAMINE 102-71-6	-	TWA: 1 mg/m³	TWA: 1 mg/m³ Peak: 1 mg/m³	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
SILICON CARBIDE 409-21-2	TWA: 3 mg/m³ TWA: 0.1 f/cc TWA: 10 mg/m³ STEL: 30 mg/m³ STEL: 9 mg/m³ STEL: 0.3 f/cc	-	TWA: 10 mg/m³ TWA: 3 mg/m³ TWA: 0.1 fiber/cm3	TWA: 6 mg/m³	-
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³ Sk*
TRIETHANOLAMINE	TWA: 5 mg/m³	-	TWA: 5 mg/m³	-	TWA: 5 mg/m³

102-71-6	STEL: 15 mg/m³				STEL: 10 mg/m³ J+

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
SILICON CARBIDE 409-21-2	-	-	-	TWA: 0.1 fiber/cm3 STEL: 0.3 fiber/cm3	TWA: 10 mg/m³
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 52 mg/m³ TWA: 10 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 104 mg/m³ STEL: 40 ppm Sk*	TWA: 15 mg/m³ STEL: 50 mg/m³ Sk*
TRIETHANOLAMINE 102-71-6	-	-	-	TWA: 5 mg/m³ STEL: 10 mg/m³	-

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
SILICON CARBIDE 409-21-2	TWA: 10 mg/m³ TWA: 3 mg/m³ TWA: 0.1 fiber/cm3	TWA: 10 mg/m³	TWA: 1.5 mg/m³ TWA: 4 mg/m³	-	TWA: 10 mg/m³ TWA: 3 mg/m³
ETHYLENE GLYCOL 107-21-1	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk* Ceiling: 100 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ Sk* Ceiling: 104 mg/m³	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*	TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ Sk*
TRIETHANOLAMINE 102-71-6	TWA: 5 mg/m³	-	-	-	TWA: 5 mg/m³

Chemical name	Sweden	Switzerland	United Kingdom
SILICON CARBIDE 409-21-2	NGV: 0.2 fiber/cm3	TWA: 3 mg/m³ TWA: 10 mg/m³	TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³
ETHYLENE GLYCOL 107-21-1	NGV: 10 ppm NGV: 25 mg/m³ Bindande KGV: 40 ppm Bindande KGV: 104 mg/m³ Sk*	TWA: 10 ppm TWA: 26 mg/m³ STEL: 20 ppm STEL: 52 mg/m³ Sk*	TWA: 10 mg/m³ TWA: 20 ppm TWA: 52 mg/m³ STEL: 40 ppm STEL: 104 mg/m³ STEL: 30 mg/m³ Sk*
CARBOMER 9003-01-4	-	TWA: 0.05 mg/m³ STEL: 0.05 mg/m³	-
TRIETHANOLAMINE 102-71-6	NGV: 5 mg/m³ NGV: 0.8 ppm Vägledande KGV: 10 mg/m³ Vägledande KGV: 1.6 ppm Sk*	TWA: 5 mg/m³ STEL: 5 mg/m³	-

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
SILICON CARBIDE 409-21-2	-	(Note 1)	-	-	-

Note 1: Details about BEL values can be found in Annex 2 of the Austrian Ordinance on Health Monitoring in the Workplace.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
SILICON CARBIDE 409-21-2	-	-	94 mg/m³ [4] [7]

Chemical name	Oral	Dermal	Inhalation
ETHYLENE GLYCOL 107-21-1	-	106 mg/kg bw/day [4] [6]	35 mg/m³ [5] [6]
CARBOMER 9003-01-4	-	0.56 mg/kg bw/day [4] [6]	1.97 mg/m³ [4] [6]
TRIETHANOLAMINE 102-71-6	-	7.5 mg/kg bw/day [4] [6] 140 µg/cm2 [5] [6]	1 mg/m³ [5] [6]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
SILICON CARBIDE 409-21-2	13 mg/kg bw/day [4] [7]	200 mg/kg bw/day [4] [6] 200 mg/kg bw/day [4] [7]	23 mg/m³ [4] [7]
ETHYLENE GLYCOL 107-21-1	-	-	7 mg/m³ [5] [6]
CARBOMER 9003-01-4	0.2 mg/kg bw/day [4] [6]	-	0.348 mg/m³ [4] [6]
TRIETHANOLAMINE 102-71-6	3.3 mg/kg bw/day [4] [6]	70 µg/cm2 [5] [6]	0.4 mg/m³ [5] [6]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
ETHYLENE GLYCOL 107-21-1	10 mg/L	10 mg/L	1 mg/L	10 mg/L	-
CARBOMER 9003-01-4	0.003 mg/L	0.0013 mg/L	0.0003 mg/L	0.00013 mg/L	-
TRIETHANOLAMINE 102-71-6	0.32 mg/L	5.12 mg/L	0.032 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ETHYLENE GLYCOL 107-21-1	37 mg/kg sediment dw	3.7 mg/kg sediment dw	199.5 mg/L	1.53 mg/kg soil dw	-
CARBOMER 9003-01-4	0.0207 mg/kg sediment dw	0.00207 mg/kg sediment dw	0.9 mg/L	0.003117 mg/kg soil dw	-
TRIETHANOLAMINE 102-71-6	1.7 mg/kg sediment dw	0.17 mg/kg sediment dw	10 mg/L	0.151 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Thermal hazards No information available.

Environmental exposure controls No information available.

Section 9: Physical and chemical properties

9.1. 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**
Melting point / freezing point	No data available	Estimated
Boiling point / boiling range	> 100 °C	
Flammability (solid, gas)	No data available	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	> 95 °C	
Autoignition temperature	No data available	Estimated
Decomposition temperature		Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
pH	No data available	10% in deionized water
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No Data Available	Kinematic viscosity at 100 degrees C
Dynamic viscosity	No data available	Remarks: Self-Accelerating decomposition temperature (SADT): 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
Water solubility	No data available Soluble in water None known	

Solubility(ies)	No Data Available	None known
Partition coefficient	No Data Available	None known
Vapor pressure	No Data Available	mmHg
Relative density	1.36	
Bulk density	자료 없음	
Density	No data available	
Vapor density	>1	Air = 1
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available <1 Butyl acetate = 1

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization No information available.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

Section 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

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.

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

Acute toxicity Harmful if swallowed.

Numerical measures of toxicity
The following values are calculated based on chapter 3.1 of the GHS document:
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).

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ETHYLENE GLYCOL	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
CARBOMER	= 2500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.1 mg/L (Rat) 4 h
TRIETHANOLAMINE	= 4190 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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	European Union

SILICON CARBIDE	Carc. 1B

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

11.2.2. Other information

Neurological effects No information available.

Other adverse effects No information available.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 1.426 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ETHYLENE GLYCOL	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)
CARBOMER	-	LC50: =580mg/L (96h, Lepomis macrochirus)	-	-
TRIETHANOLAMINE	EC50: =216mg/L (72h, Desmodesmus subspicatus)	LC50: 10600 - 13000mg/L (96h, Pimephales promelas)	-	-

	EC50: =169mg/L (96h, Desmodesmus subspicatus)	LC50: >1000mg/L (96h, Pimephales promelas) LC50: 450 - 1000mg/L (96h, Lepomis macrochirus)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical name	Partition coefficient
ETHYLENE GLYCOL	-1.36
CARBOMER	0.27
TRIETHANOLAMINE	-2.53

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
SILICON CARBIDE	The substance is not PBT / vPvB
ETHYLENE GLYCOL	The substance is not PBT / vPvB
CARBOMER	The substance is not PBT / vPvB
TRIETHANOLAMINE	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met.

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

Section 13: Disposal considerations

13.1. 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.

Section 14: Transport information

IATA

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADN

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazard Not applicable
14.6 Special precautions for user
Special Provisions None

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
SILICON CARBIDE - 409-21-2	RG 25

ETHYLENE GLYCOL - 107-21-1	RG 84
CARBOMER - 9003-01-4	RG 82
TRIETHANOLAMINE - 102-71-6	RG 49

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
SILICON CARBIDE	5.2.7.1.1	-

Netherlands

Carcinogenic, mutagenic and reproductive toxic effects

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
SILICON CARBIDE	Present	-	-

Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Not applicable
Storage of Hazardous Material SC 10/12
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Class B

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
SILICON CARBIDE - 409-21-2	28 75	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

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
TCSI	Contact supplier for inventory compliance status

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
TCSI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H350i - May cause cancer by inhalation

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		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method

STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
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)
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)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision Date 14-Oct-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
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.

End of Safety Data Sheet