

# MATERIAL SAFETY DATA SHEETS

For

## Silicon carbide grinding paste

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Report Number : ED190805002CR001  
Date of Conduct : August 05, 2019  
Date of Report : August 08, 2019  
Revise Date : August 22, 2019

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# MATERIAL SAFETY DATA SHEETS

in accordance with (EG) no 1907/2006

## 1- Identification of the substance /preparation and of the company/undertaking

Identification of The Preparation : Silicon carbide grinding paste  
Company Identification : Junan Country Yurui Abrasives Co.,Ltd  
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## 2 - Hazards Identification

### 2.1. Classification of the substance or mixture

This product has not been classified as dangerous according to regulation (EG) 1272/2008 (CLP).

### 2.2. Label elements

This product has no duty to mark.

### 2.3. Other hazards

No known.

## 3- Composition / Information on Ingredients

Substance or Preparation: Preparation

Component/Substance	% by wt	CAS Number
Silicon carbide	60	409-21-2
Vaseline	20	8009-03-8
Lubricating oil	17	74869-22-0
Stearicacid	3	57-11-4

## 4 - First Aid Measures

### 4.1 Description of first aid measures

- Generally : Seek medical advice if symptoms persist. Avoid inhaling dust/fume/gas/mist/vapors. Avoid contact of product with eyes, skin and clothing.
- Eye contact : Rinse immediately with plenty of water. Get medical advise if irritation persists.
- Skin contact : Wash the skin with soap and water. Remove contaminated clothing a.s.a.p.
- Ingestion : Rinse the mouth with water. Do not induce vomiting. May cause aspiration if swallowed. Get medical advice.
- Inhalation : Move to fresh air. Seek medical advice if symptoms persist.

Protection for First Aid personal: Use prescribed personal protective equipment.

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

Acute symptoms and effects: None known.

Delayed symptoms and effects: None known.

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## 5 - Fire-Fighting Measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguish foam, powder or carbon dioxide.
- Unsafe extinguishing media : Water.

### 5.2 Special hazards arising from the substance or mixture

- Special hazard : Incomplete combustion and thermolysis, may produce gases of varying toxicity, such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentrations.

### 5.3 Advice for firefighters

- Generally : Use respiratory protection equipment if needed.
- Other information : Containers near a fire must be moved and/or cooled with water.

## 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment, see section 8.

### 6.2 Environmental precautions

Prevent entry into drains, water courses or soil.

### 6.3 Methods and materials for containment and cleaning up

Absorb with suitable material and collect the spillage.

Collected material to be handled as advised under section 13.

### 6.4 Reference to other sections

See section 8 and 13.

## 7 - Handling and Storage

### 7.1 Precautions for safe handling

Handled to avoid spillage, and an that occurrence of oil-/smoke vapors or dust are avoided.

Use prescribed personal protective equipment. Avoid contact with eyes and skin.

### 7.2 Conditions for safe storage, including any incompatibilities

To be kept at room temperature in closed container.

### 7.3 Specific end use(s)

Abrasive products for different surfaces and applications.

## 8 - Exposure Controls / Personal Protection

### 8.1 Exposure limit values

Chemical name	CAS no.	Interval	ppm	mg / m3	Year
Highly refined mineral oil oil mist/-fume (DMSO-extract <3%, IP 346)	-	15 min.	-	3	2000
Highly refined mineral oil oil mist/-fume (DMSO-extract <3%, IP 346)	-	8 h.	-	1	2000
Silicon carbide (SiC) (respirable dust)	409-21-2	8 h.	-	5	2007
Silicon carbide (SiC) (total dust)	409-21-2	8 h.	-	10	2007

## 8.2 Other information on limit values and monitoring

Derived zero-effect level (DNEL) : No information available.

Predicted zero-effect concentration (PNEC) : No information available.

## 8.3 Exposure controls

Prevention actions

Ensure a high level of personal hygiene. Ensure adequate ventilation on workstation. Do not wear cloths that are contaminated with the product. If there is a risk of direct contact or splashes, wear face visor or safety glasses, impervious gloves and protective clothing.

Eye protection : Your own glasses or safety glasses with side protection.

Respiratory protection : Approved respirator if exceeding exposure limits.

Hand protection : Impervious protective gloves of Nitrile rubber.

Skin protection : Wear suitable protective clothing.

Environmental exposure: Prevent entry into drains, water courses or soil.

# 9 - Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance : White paste

Odor : Faint smell of oil

Parameter	Value / unit	Metod/ref	Comments
pH concentrate	n.a.		
The pH of the solution	n.a.		
Melting point	n.a.		
Freezing point	n.a.		
Initial boiling point and boiling range	no information available		
Flash point	> 150°C	ISO 2592	
Evaporation rate	n.a.		
Flammability (solid, gas)	n.a.		
Ignition limits	n.a.		
Explosion limits	n.a.		
Vapour pressure	no information available		
Vapour density	no information available		
Relative density	1,4		
Solubility	Miscible with oil, partly soluble in organic solvent.		
Solubility in water	Insignificant.		
Partition coefficient	no information available		
Auto-ignition temperature	no information available		
Decomposition temperature	no information available		
Viscosity	no information available		
Explosive properties	n.a.		
Oxidizing properties	n.a.		

n.a.= not applicable

## 9.2 Other information

None.

# 10 - Stability and Reactivity

## 10.1 Reactivity

Not reactive.

## 10.2 Chemical stability

Chemically stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None at normal use.

## 10.4 Conditions to avoid

Heat, flames and sparks.

## 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous decomposition products

None at normal use. Thermal decomposition can lead to irritating and toxic gases and vapors are released, e.g. carbon monoxide (CO).

# 11 - Toxicological Information

## 11.1. Information on toxicological effects

**The following data are applicable for Highly refined mineral oil (DMSO-extract <3%, IP 346)**

The produkt induces no acute toxicity hazard, based on known or supplied information.

Used product may contain harmful contaminants.

- Inhalation:** Exposure to high concentrations of oil mist, may cause irritation to the respiratory organs.
- Eye contact:** Eye contact may cause irritation.
- Skin contact:** Prolonged and/or repeated skin contact, may cause redness and irritation. May cause irritation and/or dermatitis.
- Ingestion:** May cause aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Skin corrosion/-irritation:	No known.
Serious eye damage/eye irritation:	No known.
Sensitization:	No known.
Germ cell mutagenicity:	No known.
Carcinogenicity:	No known.
Reproductive toxicity:	No known.
Developmental toxicity:	No known.
Teratogenicity:	No known.
Single exposure (STOT):	No known.
Repeated exposure (STOT):	No known.
Neurological effects:	No known.
Target organ effects:	No known.

**The following data are applicable for Silicon carbide (SiC) CAS-no. 409-21-2**

**General information:** Non-fibrous SiC-particles (particles with varying particle shape) exists as respirable and non-respirable particles. Non-fibrous particles of SiC have very low toxicity on humans and experimental animals.

**Inhalation:** May irritate the airways and lungs.

**Skin contact:** Dust may irritate the skin mechanically.

**Eye contact:** Dust may irritate the eyes mechanically.

**Ingestion:** Low risk.

**Long-term effects:** Prolonged or repeated inhalation of dust for a longer time of period, increases the risk of developing lung diseases.

Acute toxicity: Based on available data the classification criteria are not met.

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

Serious eye damage/eye irritation:

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: Based on available data the classification criteria are not met.

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

Single exposure (STOT): Based on available data the classification criteria are not met.

Repeated exposure (STOT): Based on available data the classification criteria are not met.

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

## 12 - Ecological Information

### 12.1. Toxicity

**The following data are applicable for Silicon carbide (SiC) CAS-no. 409-21-2**

Not classified as toxic to aquatic organisms.

**The following data are applicable for Highly refined mineral oil (DMSO-extract <3%, IP 346)**

Not toxic to aquatic organisms. Expected LC/EC50 value >100mg/l.

**12.2. Persistence and degradability**

Assessed as partly potentially degradable, long degradation in the environment.

**12.3. Bioaccumulative potential**

Contains components that can bioaccumulate (logPow >3).

**12.4. Mobility in soil**

Low solubility in water. Absorbs strongly to soil particles.

**12.5. Result of PBT and vPvB assessment**

The product is not, or does not contain, a substance considered to be PBT or vBvP.

**12.6. Other adverse effects**

An oil film may cause physical damage to organisms and disturb the transportation of oxygen in the intermediate zone between air/water and air/soil.

**13 - Disposal Considerations**

**13.1. Waste treatment methods**

- Generally : Empty packaging should be recycled if possible. Local regulations and EU regulations shall be followed for disposal. Remains and used product that can not be reused must be treated as hazardous waste.
- Waste group : Suggested waste code EWC 13 08 99, other oil waste, other waste.

**14 - Transport Information**

Product classified as dangerous goods: No.

Land transport (ADR / RID)	
14.1. UN number	-
14.2. Proper shipping name	-
14.3. Transport hazard class(es)	-
Hazard label(s)	-
Hazard number	-
14.4. Packing group	-
14.5. Environmental hazards	-
Tunnel restriction code	-

Inland waterway transport (AND)		
14.1. UN number	-	14.4. Packing group -
14.2. Proper shipping name	-	14.5. Environmental hazards -
14.3. Transport hazard class(es)	-	
Environmental risk of tankers	-	

Maritime transport (IMDG)		
14.1. UN number	-	14.4. Packing group -
14.2. Proper shipping name	-	14.5. Environmental hazards -
14.3. Transport hazard class(es)	-	
Sub risk	-	
IMDG-code	-	
segregation group		
Marine pollution	-	
EMS	-	

Air transport (ICAO-TI / IATA-DGR)		
14.1. UN number	-	14.4. Packing group -
14.2. Proper shipping name	-	14.5. Environmental hazards -
14.3. Transport hazard class(es)	-	
Hazard label(s)	-	

**14.6. Special precautions for user**

None.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

No hazardous goods.

## 15 - Regulatory Information

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

Other information on regulations:

Work environment constitution "Exposure limits and actions against air pollution", AFS 2011:18.

Laws and regulations: European Parliament and Council Regulation (EG) no 1272/2008 from 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing of Directives 67/548/EEG and 1999/45/EG and amending of the regulation (EG) no 1907/2006 as amended.

### 15.2. Chemical safety assessment

Information: Chemical safety assessment has not been carried out.

## 16 - Other Information

Date: August 22, 2019

Data Audit Units: EMTEK (Dongguan) CO., LTD.

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Declaration: Report ED190805002C was repealed and replaced by Report ED190805002CR001.