



Material Safety Data Sheets

1. PRODUCT AND COMPANY IDENTIFICATION	
Product Name: Carbon Gripper Product NO : 349	
Recommended use of the Chemical and restrictions on use	<ol style="list-style-type: none"> 1. Higher friction thought sepcial micro particles. 2. Can use for carbon & aluminum components.
Supplier's Name & Address	Muc-Off Ltd 1st Floor, Unit 1, Concept Office Park, Innovation Close, Poole, Dorset, BH12 4QT, UK
Emergency Tel. Number	TEL: +44 (0) 1202 307793 FAX: +44 (0) 1202 746853

2. HAZARD IDENTIFICATION		
GHS label elements, including precautionary statements	Symbols	N/A
	Signal word	N/A
	Hazard statement	<p>May be harmful if swallowed (oral)</p> <p>Prolonged skin contact may cause irritation.</p> <p>Eye contact may cause eye irritation.</p> <p>Can be toxic to aquatic life. Keep out of sewers and waterways.</p>
	Precautionary statement	<p>If necessary, wear eye protective glasses and use rubber gloves.</p> <p>Keep tightly closed in a dry, cool and well-ventilated place.</p>

Other hazards which do not result in classification	None
Classification of the substance or mixture	N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	Concentration Ranges
Hydrocarbons Ester lubricants Compressive Additives	the manufacturer lists no ingredients as hazardous according to OSHA 29 CFR1910.200

4. FIRST-AID MEASURES

Description of Necessary first-aid measures	Inhalation	No specific first aid measures are required
	Skin Contact	Immediately flush with plenty of water. If Irritation develops, get medical attention. Take off cloth and wash clean immediately.
	Eye Contact	Immediately flush with plenty of Water for at least 15 minutes, if irritation Persists, get medical attention.
	Ingestion	Drink 2 glasses of Orange water. Do not Induce vomiting .Get medical attention Immediately.
Most important symptoms/effects, acute and delayed		Cause eye and skin irritation.
(PPE)for first-aid responders		None
Indication of immediate medical attention and special treatment needed		None

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Water, Dry chemicals, Foam.or CO ₂
Specific hazards arising from the Chemicals	None
Specific methods	Firefighters should wear full protective gear.Use water pray to cool unopened containers.
Special protective equipment and Precautions for fire fighters	As in any fire, wear self-contained breathing apparatus Pressure-demand, MSHA/NIOSH(approved or Equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, Protective equipment and Emergency procedures	Remove all possible fire and heat sources, including internal combustion engines, electronic equipment and systems startup.
E n v i r o n m e n t a l precautions	This material is a water pollutant and should be prevented from Contaminating soil or from entering sewage and drainage Systems and bodies of water.
Cleaning up methods	Small spill: Clean up with sand or other suitable absorbing Materials. Carefully scoop or sweep up into a Waste container for disposal. Large spill: Implement cleanup procedures by using the above- Mentioned absorbing materials. Keep public away and advise Authorities.

7. HANDLING AND STORAGE	
Precautions for safe handling	Avoid contact with skin, eyes, clothing
	Wash thoroughly after handling
	Do not reuse this packaging for storing beverages or liquids
	Do not mix with other chemicals

Storage	Keep tightly closed in a dry, cool and well-ventilated place
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls	Working area: No special ventilation requirements. General Room ventilation is adequate.
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Control parameters

Sodium Hydroxide Sodium Metasilicate	5mg/m ³	PEL-STEL	2mg/m ³
PEL-CEILING	Not determined	BEIs	Not determined

Personal Protection Equipment (PPE)

Respiratory protection	No information available under normal use conditions.
Eye protection	Wear eye protection glasses when spray.
Hand protection	None
Skin and body protection	Wear protection clothes to prevent skin contact.
Hygienic measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance			
Physical State	Liquid	Color	Astm D-1500 3.5 Amber
Shape	None	Odor	Moderate

pH Value	8.2	Odor threshold	None
Melting point/range	None	Boiling point/ range	ASTM D-1120 290°C (554°F)
Flammability	Flammable	Flash point	ASTM D-92
Decomposition Temperature	None	Auto-ignition temperature spontaneous combustion	N/A
Vapor pressure	N/A	Upper/lower flammability or Explosive limits	N/A
Density	None	Vapor density	No Vapor Generated @100°F
Partition coefficient (n-octanol/water)	N/A	Solubility	<1
Evaporation Rate	N/A		

10. STABILITY AND REACTIVITY

Chemical stability	This product is stable
Possibility of hazardous reactions	N/A
Conditions to avoid	High temperatures
Incompatible materials	Strong oxidizers such as nitric and sulfuric acids
Hazardous decomposition products	None

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Skin contact, eye contact, inhalation
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Symptoms	Skin contact	None
	Eye contact	Cause eye irritation
	Inhalation	None
	Ingestion	Not likely route of exposure. If swallowed, May cause gastrointestinal disturbances, vomiting.
Acute toxicity	None	
Interactive effects	N/A	
Chronic toxicity or long-term toxicity	Prolonged skin contact may cause irritation	

12. ECOLOGICAL INFORMATION

Toxicity	N/A
Persistence and degradability	Air : N/A Water : N/A Groundwater : N/A Soil : N/A
Bio-accumulative potential	None
Mobility in soil	Low Mobility
Other adverse effects	N/A

13. DISPOSAL CONSIDERATIONS

Disposal methods	Dispose of according to local applicable regulations
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14. TRANSPORT INFORMATION

UN No.	None
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UN Proper shipping name	None
Transport hazard class	None
Packing group	Plastic container
Marine pollutant (Y/N)	No
Special precautions	None

15. REGULATORY INFORMATION

Applicable laws and regulations:

1. Regulation on the Labour Safety and Health Facilities
2. General Rule on Dangerous Harmful Materials
3. Standards on the concentration Limits of Harmful Materials in the Air at Workplace
4. Road Traffic Safety Rules
5. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

16. OTHER INFORMATION

Reference	GHS	
Prepared by	Company name	CHEPARK ENTERPRISE CO.,LTD
	Address/Tel.	No.27, Lane 791, Sec. 2, Shanjiao Rd., Shetou Township, Changhua County 511, Taiwan (R.O.C.)
Prepared by	Title : G . Manager	Signature : Jerry Chung
Prepare date	2009/2/10	

This information is for the collection of the latest relevant information written in, but not yet make perfect; Users should be responsible for their safety.