Safety Data Sheet

Clover Silicon Carbide Grease Mix

SDS No. : 153803
V001.3
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: Clover Silicon Carbide Grease Mix

Other means of identification: LOCTITE CLOVER SC 4A-600 1 LB
Product code: IDH233169
Recommended use of the chemical and restrictions on use

Intended use: Grinding compound

Identification of manufacturer, importer or distributor
Importer: Henkel Singapore Pte Ltd 401 Commonwealth Drive, #03-01/02, Haw Par Technocentre, Singapore. 149598
Phone : +65 62660100 Fax : +65 62661161

E-mail address of person responsible for Safety Data Sheet: ap-ua-psra.sea@henkel.com

Emergency information: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Aspiration hazard	Category 1

GHS label elements:

Hazard pictogram:

Signal word: Danger

Hazard statement: H304 May be fatal if swallowed and enters airways.

Precaution:

Response: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Silicon carbide 409-21-2	10- 30 %	
Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	10- 30 %	
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	10- 30 %	Aspiration hazard 1 H304

Section 4. First aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.
Seek medical advice.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

Indication of immediate medical attention and special treatment needed: See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media: Carbon dioxide, foam, powder

Specific hazards arising from the chemical: In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.
In case of fire, keep containers cool with water spray.

Special protection equipment and precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.
Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for

disposal.

Section 7. Handling and storage

Handling: Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Prolonged or repeated skin contact should be avoided

Storage: Store in a cool, well-ventilated place.
Keep away from heat and direct sunlight.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

SILICON CARBIDE 409-21-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	SG PEL
SILICON CARBIDE, NONFIBROUS, RESPIRABLE FRACTION 409-21-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	3
	Remarks	ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica.
SILICON CARBIDE, NONFIBROUS, INHALABLE FRACTION 409-21-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	10
	Remarks	ACGIH The value is for particulate matter containing no asbestos and <1% crystalline silica.
SILICON CARBIDE, FIBROUS (INCLUDING WHISKERS) 409-21-2	**Value type**	Time Weighted Average (TWA):
	Remarks	ACGIH F: Respirable fibers: length > 5 micrometers; aspect ration >= 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.
Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
OIL MIST, MINERAL 64742-52-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	SG PEL
Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	10
MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION 64742-52-5	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
OIL MIST, MINERAL 64742-52-5	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	10
	Remarks	SG PEL
OIL MIST, MINERAL 64742-53-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	SG PEL
MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION 64742-53-6	**Value type**	Time Weighted Average (TWA):
	mg/m³	5
	Remarks	ACGIH
OIL MIST, MINERAL 64742-53-6	**Value type**	Short Term Exposure Limit (STEL):
	mg/m³	10
	Remarks	SG PEL

Respiratory protection: Use only in well-ventilated areas.

Hand protection: Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection

index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Wear protective glasses.
Protective eye equipment should conform to EN166.

Body protection: Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls: Ensure good ventilation/extraction.

Hygienic measures: Good industrial hygiene practices should be observed. Do not eat, drink or smoke while working. Wash hands before work breaks and after finishing work.

Section 9. Physical and chemical properties

Appearance:	grey paste
Odor:	characteristic
Odor threshold (CA):	No data available.
pH:	No data available.
Melting point / freezing point:	No data available.
Specific gravity:	1.3548
Boiling point:	No data available.
Flash point:	> 93 °C (> 199.4 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (2010/75/EC)	0 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials: Reacts with strong oxidants.
Chemical stability: Stable under recommended storage conditions.
Conditions to avoid: Stable
Hazardous decomposition products: Oxides of carbon.

Section 11. Toxicological information

Symptoms of Overexposure**:** Prolonged or repeated contact may cause skin irritation.
Prolonged or repeated contact may cause eye irritation.

Acute oral toxicity:

Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	

Acute inhalative toxicity:

Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Value type	LC50
	Value	> 5.53 mg/l
	Exposure time	4 h
	Species	rat
	Method	Not specified
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Value type	LC50
	Value	> 5.53 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	API Procedure
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rabbit
	Method	

Germ cell mutagenicity:

Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Section 12. Ecological information

General ecological information: Do not empty into drains / surface water / ground water.

Toxicity:

Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Value type	LC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Value type	LL50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Pimephales promelas
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Mineral oil light naphthenic hydrotreat. <3% DMSO 64742-53-6	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	Not specified

Persistence and degradability:

Distillates (petroleum), hydrotreated heavy naphthenic, < 3% DMSO 64742-52-5	Result	
	Route of application	aerobic
	Degradability	6 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages: Disposal must be made according to official regulations.

Section 14. Transport information

General information:
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Section 15. Regulatory information

Regulatory Information: Workplace Safety And Health Act (Chapter 354A) Workplace Safety And Health (Approved Codes of Practice) Notification 2013 SS586 Specification for Hazard Communication for hazardous chemicals and dangerous good Part 1,2,3

Global inventory status:

Regulatory list	Notification
TSCA	yes

Section 16. Other information

Disclaimer: This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.