

SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Name: Contact Cleaner with Protective Lubricant

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Type: Contact Cleaner and Lubricant
Product Name: **Contact Cleaner & Lubricant**
Part Number(s): **19-1907**

Emergency Contact: **Chemtrec**
Phone: **(800) 424-9300**

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1
Compressed gas

H222
H280

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.
Heavyaliphatic solvent naphtha	40 - 55	64742-96-7
Mineral Seal Oil	40 - 55	64742-30-9
Carbon Dioxide	1 - 5	124-38-9



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SECTION 4. FIRST AID MEASURES

Description of necessary first-aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Cough. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Direct contact with the eyes is likely to be irritating. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms/effects, acute and delayed

Symptoms/injuries after inhalation	Shortness of breath.
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways.

Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Specific hazards arising from the chemical

Fire hazard	Extremely flammable aerosol.
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Special protective actions for fire-fighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	Aerosol level 3.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures	No naked lights. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.
Emergency procedures <u>For emergency personnel</u>	Evacuate unnecessary personnel.
Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures For non-emergency personnel	Ventilate area.
Protective equipment	Gloves. Safety glasses.
Environmental precautions	
Prevent entry to sewers and public waters.	Notify authorities if liquid enters sewers or public waters.
Methods and materials for containment and cleaning up	
For containment	Dam up the liquid spill.
Methods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Additional hazards when processed	Hazardous waste due to potential risk of explosion. Pressurized container Do not pierce or burn, even after use.
Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not spray on an open flame or other ignition source.
Hygiene measures	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Technical measures	Proper grounding procedures to avoid static electricity should be followed.
Storage conditions	Keep only in the original container in a cool, well ventilated place away from Keep container closed when not in use. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight. Heat sources.
Storage area	Store in a well-ventilated place.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

Control parameters

Carbon Dioxide (124-38-9)

USA ACGIH	ACGIH TWA (mg/m ³)	9000 mg/m ³
USA ACGIH	ACGIH TWA (ppm)	5000 ppm
USA ACGIH	ACGIH STEL (mg/m ³)	54000
USA ACGIH	ACGIH STEL (ppm)	30000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	9000 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	5000 ppm

Appropriate engineering controls

Hand protection	Wear protective gloves.
Eye protection	Chemical goggles or safety glasses.
Respiratory protection	Wear respiratory protection. Wear appropriate mask.
Other information	Do not eat, drink or smoke during use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Gas	Decomposition temperature	No data available.
Appearance	Colorless to pale yellow liquid	Flammability (solid, gas)	No data available.
Odor	Characteristic	Vapor pressure	0.013 kPa
Odor Threshold	No data available.	Relative vapor density at 20 °C	4.5
pH	No data available.	Relative density	0.8
Relative evaporation rate		Solubility	Insoluble in water
(butyl acetate=1)	0.19	Log Pow	No data available.
Melting point	-58 °C	Log Kow	No data available.
Freezing point	No data available.	Viscosity, kinematic	1.92 cSt @ 40C
Boiling point	> 180 °C	Viscosity, dynamic	No data available.
Flash point	> 84 °C	Explosive properties	No data available.
Auto-ignition temperature	236 °C	Oxidizing properties	No data available.



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SECTION 10. STABILITY AND REACTIVITY

Reactivity

No additional information available .

Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological (health) effects

Acute toxicity Not classified.

Aliphatic Hydrocarbon (64742-96-7)

LD50 oral rat > 19200 mg/kg

Information on the likely routes of exposure

Skin corrosion/irritation Not classified.

Serious eye damage/irritation Not classified.

Respiratory or skin sensitization Not classified.

Germ cell mutagenicity Not classified based on the available data, the classification are not met.

Carcinogenicity Not classified.

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SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

Reproductive toxicity	Not classified based on the available data, the classification are not met.
Specific target organ toxicity (single exposure)	Not classified.
Specific target organ toxicity (repeated exposure)	Not classified based on the available data, the classification are not met.
Aspiration hazard	Not classified based on the available data, the classification are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Potential Adverse human health effects and symptoms

Symptoms/injuries after inhalation	Shortness of breath.
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

carbon dioxide, liquefied, under pressure (124-38-9)

LC50 fish 1	35 mg/l (96 h; Salmogairdneri (Oncorhynchus mykiss); Lethal)
LC50 fish 2	60 - 240 mg/l (12 h; Salmogairdneri (Oncorhynchus mykiss); Lethal)

Persistence and degradability

Lubricant

Persistence and degradability	Not established.
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Aliphatic Hydrocarbon (64742-96-7)

Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil.
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Chemical oxygen demand (COD)	Photodegradation in the air.
ThOD	2.25 g O /g substance
BOD (% of ThOD)	2.89 g O /g substance
	> % ThOD (5 day(s)) > 0.5

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SECTION 12. ECOLOGICAL INFORMATION (CONTINUED)

carbon dioxide, liquefied, under pressure (124-38-9)

Persistence and degradability	Biodegradability: not applicable
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Bioaccumulative potential

Lubricant

Bioaccumulative potential	Not established.
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Aliphatic Hydrocarbon (64742-96-7)

Log Pow	5.24 - 7.18 (QSAR)
Bioaccumulative potential	Not established.

carbon dioxide, liquefied, under pressure (124-38-9)

Log Pow	0.83 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

Mobility in soil

Aliphatic Hydrocarbon (64742-96-7)

Surface tension	0.033 N/m (20 °C)
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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal recommendations	Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations. Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.
Additional information	Flammable vapors may accumulate in the container.
Ecology - waste materials	Hazardous waste due to toxicity. Avoid release to the environment.

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SECTION 14. TRANSPORT INFORMATION

UN Proper Shipping Name

DOT Proper Shipping Name: Aerosols flammable, (each not exceeding 1 L capacity)

Department of Transportation (DOT)

Hazard Classes: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115

Hazard labels (DOT): 2.1 - Flammable gas



DOT Special Provisions
(49 CFR 172.102):

N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.

DOT Packaging Exceptions
(49 CFR 173.xxx):

306

DOT Packaging Non Bulk
(49 CFR 173.xxx):

None

DOT Packaging Bulk
(49 CFR 173.xxx):

None

Overland Transport

No additional information available

Transport by sea

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other: 48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials

Air transport

DOT Quantity Limitations Passenger
aircraft/rail (49 CFR 173.27):

75 kg

DOT Quantity Limitations Cargo
aircraft only (49 : CFR 175.75):

150 kg

Other information: No supplementary information available.



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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

US federal regulations

Lubricant

SARA Section 311/312

Hazard Classes

Delayed (chronic) health hazard

Immediate (acute) health hazard

Fire hazard

Sudden release of pressure hazard

International regulations

Canada

Lubricant

WHMIS Classification Class B Division 5 - Flammable Aerosol

EU-Regulations

Classification according to

Directive 67/548/EEC or

1999/45/EC

Not classified

US state regulations

No additional information available

SECTION 16. OTHER INFORMATION

GC Electronics believes that the information contained herein is accurate and reliable as of the date of this material safety data sheet, but no representation guarantee or warranty, express or implied, is made as to the accuracy, reliability or completeness of the information. Persons receiving information are encouraged to make their own determination as to the information's suitability and completeness for their particular application. NO INFORMATION CONTAINED HEREIN CONSTITUTES A PRODUCT WARRANTY OF ANY KIND, WHETHER EXPRESS OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANT ABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED BY GC ELECTRONICS.