

ELECTRICAL CONTACT CLEANER

Released: 2019-02-11

Version: 1.0
Revision Date: 2019-02-11

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

1.1 Product Identifier

Trade Name: Electrical contact cleaner
Product Number: 72920

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Electrical contact cleaner - aerosol

Restrictions on Use: None known

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
Information Phone Number: +1 619 449 5000
E-mail: info@maximausa.com

1.4 Emergency Telephone Number

Emergency Spill Information: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP (1272/2008) Classification:

Aerosol 1 (H222, H229)
Aspiration Toxicity Category 1 (H304)
Skin Irritation Category 2 (H315)
Skin Sensitisation Category 1 (H317)
Eye Irritation Category 2 (H319)
Specific Target Organ Toxicity Single Exposure Category 3 (H336)
Aquatic Chronic Category 2 (H411)

2.2 Label Elements

Danger





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Hazard Statements	Precautionary Phrases
H222 Extremely flammable aerosol H229 Pressurised container: May burst if heated H315 Causes skin irritation H317 May cause an allergic skin reaction. H319 Causes serious eye irritation H336 May cause drowsiness or dizziness H411 Toxic to aquatic life with long lasting effects	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands and arms thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with soap and water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical attention. P337 + P313 If eye irritation persists: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.



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Chemical Name	CAS#	EINECS#	REACH registration#	CLP Classification	% w/w
Acetone	67-64-1	200-662-2	-	Flammable Liquids 2 (H225) Eye Irritation 2 (H319) Specific Target Organ Toxicity Single Exposure 3 (H336)	50-70
Heptane	142-82-5	205-563-8	-	Flammable Liquids 2 (H225) Aspiration Toxicity 1 (H304) Skin Irritation 2 (H315) Specific Target Organ Toxicity Single Exposure 3 (H336) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	10-20
Limonene	5989-27-5	227-813-5		Flammable Liquids 3 (H226) Skin Irritation 2 (H315) Skin Sensitisation 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	1-5
Methanol	67-56-1	200-659-6	-	Flammable Liquids 2 (H225) Acute Toxicity 3 (H301, H311, H331) STOT SE 1 (H370)	1-< 3
2-Butoxy-ethanol	111-76-2	203-905-0	-	Skin Irritation 2 (H315) Eye Irritation 2 (H319) Acute Toxicity 4 (H302, H312, H332)	1-<2
Butane ^K	106-97-8	203-448-7	-	Flammable Gases 1 (H220) Gas under pressure, Liquefied Gas (H280)	5-10



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Isobutane	75-28-5	200-857-2	-	Flammable Gases 1 (H220) Gas under pressure, Liquefied Gas (H280)	1-5
Propane	74-98-6	200-827-9	-	Flammable Gases 1 (H220) Gas under pressure, Liquefied Gas (H280)	10-20

Note K. The substance contains less than 0.1% w/w 1,3-butadiene (EC 203-450-8), and does not need to be classified as a carcinogen or mutagen.

The exact percentage and composition are being withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Immediately flush eyes with large amounts of water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.

Skin: Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse. If irritation or rash develops, get medical attention.

Inhalation: If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get medical attention.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

4.2 Most Important symptoms and effects, both acute and delayed: Causes eye irritation. Causes skin irritation. May cause an allergic skin reaction. Inhalation of vapours or mist may cause central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration during swallowing or vomiting may cause lung damage.

4.3 Indication of any immediate medical attention and special treatment needed: As a general rule, and in all cases of doubt or when symptoms persist, always seek medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE AND EXPLOSION DATA

5.1 Extinguishing Media: Use alcohol-resistant foam, dry chemical or carbon dioxide (CO₂) to extinguish flames. Water may be ineffective but can be used to cool exposed containers and structures and disperse flammable vapours.



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5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Contents under pressure. Keep away from heat and open flames. Container may rupture or explode in the heat of a fire. Prolonged exposure to temperatures above 50°C may cause cans to burst.

Combustion Products: Combustion will produce carbon oxides and unidentified organic compounds.

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures: Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water. Protect against bursting cans.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective equipment. Wash thoroughly after handling. See also: "Personal Protection" section 8.

6.2 Environmental Precautions:

Avoid release into the environment. Report spill as required by local and national regulations.

6.3 Methods and Material for Containment and Cleaning Up:

Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapours and protect personnel attempting to stop leak. Ensure collected material is handled in accordance with section 13 "Disposal Considerations".

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapours and mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep away from heat, sparks, flames and all other sources of ignition. Contents under pressure. Do not permit smoking in use or storage areas. Do not expose to temperatures above 50°C. Do not puncture or incinerate containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store in accordance with regulations for the storage of aerosol containers. Store away from oxidisers and other incompatible materials. Protect from physical damage.

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7.3 Specific end use(s): The product is to be used as an electrical contact cleaner. Contact with the eyes and skin should be prevented due to the risk of irritation and allergic dermatitis. If inhalation of high concentrations of vapours and mists cannot be prevented appropriate personal protective equipment should be used.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
Acetone	500 ppm (1210 mg/m ³) TWA EH40/2005
Heptane	500 ppm (2085 mg/m ³) TWA EH40/2005
Butane	600 ppm (1450 mg/m ³) TWA EH40/2005
Limonene	None established
Methanol	200 ppm (266 mg/m ³) TWA EH40/2005 Sk (Can be absorbed through the skin)
2-Butoxyethanol	25 ppm (123 mg/m ³) TWA EH40/2005 Sk (Can be absorbed through the skin) BMGV (Biological monitoring guidance values)

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate local exhaust ventilation to minimise exposure. Use explosion proof equipment where required.

Respiratory Protection: If the exposure is excessive or irritation is experienced, an approved particulate/organic vapour respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with local regulations and good industrial hygiene practice.

Skin Protection: Wear impervious gloves in accordance with EN 374 to avoid skin contact. Protective clothing if needed to avoid skin contact and contamination of personal clothing. Suitable washing should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

Eye Protection: Wear chemical goggles in accordance with EN 166 to prevent eye contact.

Other Protective Equipment: None should be needed under normal use conditions. In Europe follow EN 13034.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance	Liquid
Colour	Clear
Odour	Characteristic odour
Odour Threshold	No data available



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pH	No data available
Freezing Point	No data available
Boiling Point	56°C
Flash Point	-17°C
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapour Pressure	No data available
Vapour Density (Air=1)	No data available
Relative Density	No data available
Solubility	No data available
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	< 20.5 cSt @ 40°C

9.2 Other Information: None available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not expected to be reactive

10.2 Chemical Stability: Stable

10.3 Possibility of Hazardous Reactions: Vapours may form explosive mixture with air.

10.4 Conditions to Avoid: Keep away from heat, sparks, flames and all other sources of ignition. Dropping containers may cause bursting.

10.5 Incompatible Materials: Avoid contact with strong oxidising agents.

10.6 Hazardous Decomposition Products: Thermal decomposition may produce carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: Causes eye irritation with redness, tearing and pain.



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Skin Contact: Causes skin irritation with non-allergic dermatitis. Repeated skin contact may cause allergic dermatitis.

Inhalation: Inhalation of vapours or mist may cause central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness.

Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea. Aspiration during swallowing or vomiting may cause lung damage.

Chronic Effects of Overexposure: Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.

Acute Toxicity Values:

Acetone: Oral rabbit LD50 5800 mg/kg, Inhalation rat LC50 76 mg/L (vapours), Dermal rat LD50 >15800 mg/kg

Heptane: Oral rat LD50 >5840 mg/kg, Inhalation rat LC50 23.3 mg/L/4 h, Dermal rabbit LD50 >2920 mg/kg

Skin corrosion/irritation: Product is classified as a skin irritant.

Eye damage/irritation: Product is classified as an eye irritant.

Respiratory Irritation: The product does not meet the criteria to be classified as a respiratory irritant.

Respiratory Sensitization: The product does not contain any components that are respiratory sensitisers.

Skin Sensitisation: The product is classified as a skin sensitiser. May cause allergic dermatitis.

Germ Cell Mutagenicity: The product does not contain any components that are germ cell mutagens.

Carcinogenicity: None of the components of this product present at 0.1% or greater are listed as carcinogens by IARC, NTP or the EU CLP.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity:

Single Exposure: The product is classified as a specific target organ toxicant, single exposure, category 3 with narcotic effects.

Repeat Exposure: No data available

Aspiration Hazard: This product does meet the criteria of an aspiration hazard as the kinematic viscosity is below 20.5 cSt @ 40°C. Product is not labelled as an aspiration hazard due to packaging as an aerosol.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Heptane: 96 h LC50 Oncorhynchus mykiss >13.4 mg/L, 48 h EC50 Daphnia magna 3 mg/L, 72 h NOELR

Pseudokirchneriella subcapitata 10 mg/L

Acetone: 96 h LC 50 Oncorhynchus mykiss 5540 mg/l, 48 h EC 50 Water flea (Daphnia pulex) 8800 mg/l,

8 d NOEC Algae (Microcystis aeruginosa) 530 mg/l

12.2 Persistence and Degradability

Heptane is readily biodegradable (98%, 28 d).

Acetone is readily biodegradable (91%, 28 d, OECD 301B).

12.3 Bioaccumulative Potential

Heptane has a calculated BCF of > 500 which suggests a potential for bioaccumulation.

Acetone has a low potential for bioaccumulation (BCF = 3).

12.4 Mobility in Soil

Heptane: Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

Acetone: Adsorption coefficient soil (Kd): 1.5L/kg at 20°C.

The soil adsorption coefficient indicates that acetone is mobile in soil and may be transported by ground water.

12.5 Results of PBT and vPvB Assessment: Components do not meet the criteria of PBT or vPvB.**12.6 Other Adverse Effects:** None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
EU ADR/RID	1950	Aerosols, flammable	2.1 (5F)	-	Yes
IMDG	1950	Aerosols	2.1	-	Yes, Marine Pollutant
IATA/ICAO	1950	Aerosols	2.1	-	Yes

14.6 Special Precautions for User: Not applicable



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14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

This SDS conforms to Regulation (EU) No. 1907/2006 and 2015/830.
Label in accordance with Regulation (EC) No. 1272/2008 (CLP).

SECTION 16: OTHER INFORMATION

Supersedes: None

Date Updated: 11 February, 2019

Revision Summary: New document.

CLP Classification for Reference (See Sections 2 and 3):

Aerosol 1, Aerosol Category 1

Flam. Gas. 1 Flammable Gases Category 1

Flam. Liq. 2 Flammable Liquids Category 2

Flam. Liq. 3 Flammable Liquids Category 3

Acute Tox. 3 Acute Toxicity Category 3

Acute Tox. 4 Acute Toxicity Category 4

Asp. Tox. 1 Aspiration Toxicity Category 1

Skin Irrit. 2 Skin Irritation Category 2

Skin Sens. 1 Skin Sensitisation Category 1

Eye Irrit. 2 Eye Irritation Category 2

STOT SE 1 Specific Target Organ Toxicity Single Exposure Category 1

STOT SE 3 Specific Target Organ Toxicity Single Exposure Category 3

Aquatic Acute 1 Aquatic Acute Category 1

Aquatic Chronic 1 Aquatic Chronic Category 1

Aquatic Chronic 2 Aquatic Chronic Category 2

H220 Extremely flammable gas

H222 Extremely flammable aerosol

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H229 Pressurised container: may burst if heated

H280 Contains gas under pressure; may explode if heated

H301 Toxic if swallowed

H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways

H311 Toxic in contact with skin

H312 Harmful in contact with skin

H315 Causes skin irritation



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- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H331 Toxic if inhaled
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H370 Causes damage to organs
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects

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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.