

Cross Oil Material Safety Data Sheet

Cross Oil – Packaging Division

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Smackover, AR USA
71762

Emergency:

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Information:

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: Brake Parts Cleaner
CAS Registry Number: Not applicable for mixtures
Synonyms: Gard Low VOC Non-chlorinated Brake Parts Cleaner, Gard Non-chlorinated Brake Parts Cleaner
Item Number: -
Generic/Chemical Name: -
Product Type: Aerosol

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	%	ACGIH TWA	OSHA PEL	OSHA STEL	OTHER (ppm)
Heptane	142-82-5	20-25	400 ppm	400 ppm	n/a	85 (1)
2-Propanone	67-64-1	45-55	750 ppm	750 ppm	1000 ppm	n/a
Toluene	108-88-3	20-25	50 ppm	100 ppm	n/a	100 (1)
Methanol	67-56-1	< 4	200 ppm	200 ppm	n/a	250 *
Carbon Dioxide	124-38-9	3-5	5000 ppm	5000 ppm	15000 ppm	n/a

ABBREVIATIONS:

NE: None Established NA: Not Applicable (1): NIOSH Guidelines (2): "STEL" Guidelines (3) "Manufacturer Recommendation" Short Term Exposure Limit ND: Not Determined

SECTION 3 HAZARDS IDENTIFICATION

WARNING: Not applicable.
Eye Contact: Moderate eye irritation: symptoms can include redness, swelling, pain, tearing, and hazy vision.
Skin Contact: After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching, and dryness. May be absorbed through the skin in harmful amounts. May be absorbed if prolonged and repeated contact occurs. Exposures may aggravate existing eye, skin, kidney and liver disorders.
Inhalation: May be harmful or fatal if inhaled. Blood disorders: Symptoms include a general feeling of unhealthiness, weakness and fatigue. Clotting disorders (increased blood clotting time): Symptoms can include bruising easily and bleeding which takes a long period to stop. Gastro-intestinal disturbance: Symptoms can include nausea, vomiting and diarrhea. Cardiac sensitization: Sudden heart stoppage due to a reflex effect on the nerves which control the heart. This effect usually occurs only after inhalation of concentrated vapors such as intentional abusive sniffing of certain solvents and propellants. Heart effects: Symptoms

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can include arrhythmia, heart attack, and death. Nervous systems effects: Symptoms can include emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma. Peripheral neuropathy: Symptoms can include tingling of extremities, in coordination, sensory losses, weakness, tremors, and emotional changes. Chemical pneumonitis: Inhalation of liquid or vapors can result in symptoms of coughing, difficulty breathing, wheezing, pneumonia, and coughing up blood. Respiratory system irritation: Symptoms can include coughing, congestion, irritation of throat, tightness of chest, wheezing and difficulty breathing. Lung damage: Symptoms can include coughing, difficulty breathing, wheezing tightness in chest, congestion, and coughing up blood. Pulmonary edema: Symptoms can include coughing, difficulty breathing, fluid in lungs, unconsciousness, and even death.

Ingestion:

Not likely as an aerosol but, if swallowed, it can be harmful or fatal. ASPIRATION HAZARD. Irritation of gastrointestinal tissues: Symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces. Blood Disorders: Symptoms can include a general feeling of unhealthiness, weakness, and fatigue. Heart effects: Can include arrhythmia, heart attack, and death. Kidney damage: Symptoms can include reduced urine volume, loss of appetite, weight gain, red urine, back pain, painful urination, and lethargy. Central nervous system effects: Symptoms can include emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma. Aspiration Pneumonitis: Symptoms can include coughing, difficulty breathing, wheezing, pneumonia, and coughing up blood. Liver Damage: Symptoms can include yellow skin, tenderness of abdomen, abdominal distension, lethargy, fever, and death. Contains Methanol which cannot be made non-poisonous. Deaths are reported from as little as 30 ml of Methanol; can cause blindness that could be permanent.

Systemic And Other Effects

None known

SECTION 4

FIRST AID MEASURES

Eye Contact:

In case of contact, immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower eyelids. If irritation or other symptoms persist, call a physician.

Skin Contact:

In case of contact, immediately wash skin with large amounts of soap and water. Remove contaminated clothing. If irritation is severe, call a physician immediately. Wash clothing before reuse. Destroy or properly dispose of contaminated shoes.

Inhalation:

If inhaled, move person to non-contaminated air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately if symptoms persist.

Ingestion:

Ingestion is not likely as an aerosol but, if ingested, **do not induce vomiting**. Never give anything by mouth to an unconscious person. Call a physician immediately. Keep victim on their left side, with their head down to prevent aspiration. Gastric lavage should be only considered by medical personnel following intubation with a cuffed endotracheal tube.

SECTION 5

FIRE FIGHTING MEASURES

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Flash Point:	Min. -17.8°C (<0°F) by Cleveland Closed Cup, ASTM D 92
Upper Flammable Limit:	12.8%
Lower Flammable Limit:	1.0%
Extinguishing Media:	Use dry chemical, foam, alcohol foam or carbon dioxide
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills that have not ignited, water spray can be used to disperse the flammable vapor and protect personnel attempting to stop the leak. Do not use direct stream of water because product will float and can be reignited on surface of water.
Unusual Fire and Explosion Hazards:	Firefighters should wear SCBA's in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground away from handling site. Eliminate all sources of ignition as vapor may ignite. Carbon oxides may be formed.
By-products of Combustion:	Not determined
Auto-ignition Temperature:	Not determined
Explosion Data:	Not determined. Care should always be exercised in dust/mist areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures (Land):	Ventilate area,-especially low places where heavy vapors might collect. Extinguish all ignition sources. Contain spill. Cover with inorganic absorbent material. Collect spilled material. Clean up residue. Place in an approved DOT container for disposal. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personnel protective equipment.
Spill Procedures (Water):	Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities.
Waste Disposal Method:	Reclaim by distillation if possible or remove to a permitted waste disposal facility in accordance with local, state, and federal regulations.
Regulatory Information:	Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, from the container, the user should determine if release is reportable.

SECTION 7 HANDLING AND STORAGE

Handling Procedures:	Read label before using. Do not smoke when handling or using this product. Do not cut on empty containers as they may contain vapors that are flammable.
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Storage Procedures: Store in tightly sealed containers. Keep away from heat, sparks & open flame. Do not get in eyes, on skin or clothing. Do not breathe vapor or mist. Do not store or transfer to an unmarked container. Do not store in direct sunlight. Store containers below 120°F.

Additional Information: No additional information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Full-face organic vapor and acid gas respirator, full-face supplied air respirator, full-face pressure demand self-contained breathing apparatus.

Eye Protection: Wear unvented goggles during operations in which exposure is likely. Wear full face shield.

Hand Protection: Any lined non-permeable rubber gloves like buna or nitrile.

Other Protection: Non-permeable clothing to protect all skin from liquid contact.

Local Control Measures: Use with appropriate local exhaust ventilation. Provide appropriate local exhaust at transfer points. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Other: Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash exposed areas thoroughly with soap and water.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 110 psig (Standard Temperature and Pressure, 25°C at 1 ATM)

Gravity by ASTM D 1298:

API Gravity n/a

Specific Gravity @ 15.6°C 0.7400

Density @ 15.6°C n/a

Solubility 50% wt in water

Percent Volatile: 45% wt

Vapor Density, Air = 1: Greater than

**Evaporation Rate,
n-Butyl Acetate = 1:** Faster than

Odor: Aromatic / ketone odor

Appearance: Colorless liquid

Viscosity by ASTM D 445:

cSt at 40°C (104°F) n/a

cSt at 100°C (212°F) n/a

Boiling Point: Not determined.

Pour Point (°C):
by ASTM D 97 n/a

Molecular Weight: Not determined.

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SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable, avoid open flames and high temperature (above 120°F) and direct sunlight.
Conditions To Avoid:	Avoid high temperatures and product contamination.
Incompatibility With Other Materials:	Strong oxidizers,(such as; liquid chlorine, halogens, hydrogen peroxide, and oxygen), selected amines, strong acids (such as Nitric and Sulphuric), strong bases and molten sulphur.
Decomposition Products:	Carbon oxides can form on incomplete combustion.
Hazardous Polymerization:	Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral Toxicity:	No data available.
Dermal Toxicity:	No data available.
Inhalation Toxicity:	No data available.
Dermal Sensitization:	Prolonged or repeated contact may make skin more sensitive to other skin sensitizers. Based on data from similar materials.
Chronic Toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	Toluene, a component of this product, can cause irreversible changes in the genetic material of a cell based on results of tests in workers exposed to "high" concentrations.
Reproductive Toxicity:	Toluene is not classifiable as to its ability to cause reproductive health effects in humans.
Teratogenicity:	No data available.
Other:	This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicity:	This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.
Environmental Fate:	No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal:	Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.
Disposal Consideration:	Place used, contaminated, or excess material into disposable containers and dispose of in a manner consistent with local and state regulations. Contact local environmental or health authorities for approved disposal of this material. Most used oil is reclaimed or incinerated.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT Information

Bulk Shipping Description: Does not apply to bulk shipping.

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Non-Bulk Shipping Description: Does not apply to non-bulk shipping.

Identification Number: Not applicable.

Hazard Classification: Not applicable.

Other: See 49 CFR for additional requirements for descriptions, allowed modes of transport, and packaging. For more information concerning spills during transport, consult latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

SECTION 15 REGULATORY INFORMATION

Clean Water Act/Oil Pollution Act: Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spills or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8802.

TSCA: All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: Not applicable.

SARA Title III:

Section 302/304	Extremely Hazardous Substances:	None
Section 311/312	<u>Hazard Categorization:</u>	
	Acute (immediate health effects):	Yes
	Chronic (delayed health effects):	Yes
	Fire (hazard):	Yes
	Reactivity (hazard):	No
	Pressure (sudden release hazard):	Yes

Section 313 Toxic Chemicals: No

CERCLA:

For stationary sources - reportable quantity:	Not determined.
Due to:	Not applicable.
For moving sources - reportable quantity:	Not determined.
Due to:	Not applicable.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

California Prop. 65: Yes Toluene

Massachusetts Right To Know Yes Heptane
Toluene
2-Propanone
Methanol

New Jersey Right To Know Yes Carbon Dioxide
Heptane
Toluene
2-Propanone
Methanol
Carbon Dioxide

Note: Refer to Section 1 for composition concentration and CAS numbers.

SECTION 16 OTHER INFORMATION

	NFPA 704	NPCA-HMIS	KEY
HEALTH:	2	2	0 = Minimal
FIRE:	4	4	1 = Slight

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REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	NONE	N/A	3 = Serious
PROTECTION INDEX:	N/A	B	4 = Severe

Precautionary Labels: NONE REQUIRED

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Cross Packaging must rely upon information provided by the material manufacturers or distributors.

Prepared by: David Collins
File: Non-Chlorinated Brake Parts Cleaner

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