

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsens Brake Parts Cleaner
MSDS NO. 2420
Revision Date: 03/11/2009
Date Printed: 03/11/2009

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsens Brake Parts Cleaner
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Perchloroethylene 127-18-4	85-100	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	0-15	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Perchloroethylene 127-18-4	85-100	Not Listed	100 ppm 170 mg/m ³ 25 ppm	200 ppm
Carbon Dioxide 124-38-9	0-15	9000 mg/m ³ 5000 ppm	18000 mg/m ³ 10000 ppm	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Perchloroethylene 127-18-4	25 ppm	100 ppm	Not Listed
Carbon Dioxide 124-38-9	5000 ppm	30000 ppm	Not Listed

3. HAZARDS IDENTIFICATION

Emergency Overview: Content under pressure. Harmful if inhaled. May be fatal if swallowed. DANGER: SUSPECTED CANCER HAZARD May cause severe eye irritation. Harmful if absorbed through the skin.

HMIS Classification: Health: *2 Flammability: 0 Physical Hazard: 2
NFPA Rating: Health: 2 Flammability: 0 Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.
Ingestion: If swallowed, do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.
Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.
Skin Contact: Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point °F(°C): None (TCC)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): Not Determined
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): None

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5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Use water spray to keep containers cool that are exposed to heat or flames.

Protection Of Fire-Fighters:

Special Fire-Fighting Procedures: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Avoid skin contact.

Hazardous Combustion Products: Hydrogen chloride, phosgene, chlorine.

Aerosol Comments: NFPA Level 1 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Avoid breathing vapor. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components.

Spill Procedures: Contain any liquid from leaking containers. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. Avoid breathing vapors.

Action to be taken if material is released or spilled: Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

7. HANDLING AND STORAGE

Handling and Storage: Caution: Contents under pressure. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile. Keep away from heat and open flame. This material or it's vapors in contact with flames or hot glowing surfaces may form corrosive acid fumes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid.

Odor: FAINT SWEET

pH Value: Not Determined

Vapor Pressure: Approx. 13 mm Hg @20C

Vapor Density (Air=1): 4.1 Approximate

Boiling Point (°F): 250 F

Melting/Freezing Point: Not determined.

Solubility in Water: >65%

Bulk Density at 20°C: not determined

Molecular Weight: Mixture

Specific Gravity (H2O=1): 1.62@25/25C

Viscosity: Not Determined.

Evaporation Rate: Not Determined

VOC Content(%): Not determined.

Decomposition Temperature: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.

Conditions to Avoid: Do not expose to heat or store at temperatures above 120 F. Avoid contact with open flame, electric arcs, or other hot surfaces that could cause thermal decomposition.

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10. STABILITY AND REACTIVITY

Materials to Avoid: Nitric acid. Sulfuric Acid. Strong acids. Contact with oxidizing agents. Chlorine compounds. Chloroform. Alkalis. Potassium t-butoxide. Strong bases.
Hazardous Decomposition Products: Carbon monoxide. The thermal decomposition products of this material are categorized as very toxic by the University of Pittsburgh toxicity of combustion products test method
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Component	Route	Species	Dose
Perchloroethylene 127-18-4	Inhalation	Rats	LC50 34200 mg/m ³ /8H
Carbon Dioxide 124-38-9	NA	NA	Not known.

Carcinogenicity:

Component	IARC	NTP	OSHA
Perchloroethylene 127-18-4	Group 2A (Probable carcinogenic to humans)	Listed - Suspect Carcinogen	Possible Select Carcinogens
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Residues and spilled material are hazardous waste due to ignitability.
Waste Management: Not determined.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:

Proper Shipping Name: CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:

Proper Shipping Name: Aerosols
Hazard Class: 2
Hazard Subclass: 2.2
UN No.: UN 1950
Packing Group: Not Applicable
Marine Pollutant: Yes

15. REGULATORY INFORMATION

US Federal Regulations:

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Component	SARA 313	SARA 302	TPQ	RQ
Perchloroethylene 127-18-4	Listed.	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed

US OSHA HEALTH CLASSIFICATION: Hazardous per OSHA 29 CFR 1910.1200
SARA 311/312 Hazard Categories: Acute, Chronic, Pressure

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Perchloroethylene 127-18-4	Listed: April 1, 1988 Carcinogenic.	Not Listed	Not Listed	Not Listed
Carbon Dioxide 124-38-9	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Perchloroethylene 127-18-4	Substance no. 1810
Carbon Dioxide 124-38-9	Substance no. 0343

U.S. TSCA: The components of this product are listed on the TSCA Inventory.
Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

16. OTHER INFORMATION

General Notes:
Disclaimer:

Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.