



MATERIAL SAFETY DATA SHEET

C-706

1. Product and Company Identification

Product number 706
Product name Automotive Brake Parts Cleaner
Effective date 13-Nov-2007
Company information Claire Manufacturing
500 Vista Ave.
Addison, IL 60101 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Supersedes date 14-Aug-2007

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE.
Aerosol. Pressurized container may explode when exposed to heat or flame. Harmful in contact with eyes. Cancer hazard. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Skin contact. Inhalation.

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin Irritating to skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

Target organs Kidney. Central nervous system. Heart. Liver. Respiratory system.

Chronic effects Conjunctiva. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

Signs and symptoms Discomfort in the chest. Corneal damage. Narcosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the skin. Irritation.

Potential environmental effects Components of this product are hazardous to aquatic life.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Perchloroethylene	127-18-4	40 - 50
Trichloroethylene	79-01-6	40 - 50
Carbon Dioxide	124-38-9	3 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

Ingestion	Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Call a physician if symptoms develop or persist.

5. Fire Fighting Measures

Flammable properties	Not a fire hazard. The product is not flammable.
Extinguishing media	
Suitable extinguishing media	Water. Water fog. Foam. Dry chemical. Carbon dioxide (CO2).
Protection of firefighters	
Protective equipment and precautions for firefighters	Containers should be cooled with water to prevent vapor pressure build up. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions	Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
Methods for cleaning up	Should not be released into the environment.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not breathe gas/fumes/vapor/spray. Wear personal protective equipment. Avoid prolonged exposure.
Storage	Level 1 Aerosol.
	Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Perchloroethylene	127-18-4	25 ppm	100 ppm	Not established
Trichloroethylene	79-01-6	50 ppm	100 ppm	Not established
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Perchloroethylene	127-18-4	100 ppm	Not established	200 ppm
Trichloroethylene	79-01-6	100 ppm	Not established	200 ppm
Carbon Dioxide	124-38-9	5000 ppm	Not established	Not established

Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Personal protective equipment	
Eye / face protection	Wear chemical goggles.

Skin protection	Wear appropriate chemical resistant clothing. Protective gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Color	clear colorless
Odor	Solvent.
Physical state	Liquid.
Form	Aerosol.
Flammability (HOC)	0.01 kJ/g estimated
Flash back	No
Pressure	110 - 130 psig @ 70F
Solubility	None
Flash point	None
Boiling point	107.6 °F (42.2 °C) estimated
Specific gravity	1.5919 estimated
pH	Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Hazardous decomposition products	Hydrogen chloride. Irritants. Toxic gas. May include oxides of carbon.

11. Toxicological Information

Acute effects	Acute LD50: 3375 mg/kg estimated, Rat, Oral Acute LC50: 16563 mg/l/4h estimated, Rat, Inhalation
Sensitization	Not expected to be hazardous by OSHA criteria.
Local effects	Contact may irritate or burn eyes. Liver toxicity. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.
Chronic effects	Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Subchronic effects	Kidney injury may occur.
Carcinogenicity	Hazardous by OSHA criteria.
Neurological effects	Hazardous by OSHA criteria.
Mutagenicity	Not expected to be hazardous by OSHA criteria.
Reproductive effects	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.
Epidemiology	Hazardous by OSHA criteria.
Further information	Symptoms may be delayed.

12. Ecological Information

Ecotoxicity	LC50 9.23 mg/L estimated, Fish, 96.00 Hours, EC50 3.22 mg/L estimated, Daphnia, 48.00 Hours,
Environmental effects	Harmful to aquatic life.

13. Disposal Considerations

Waste codes	D039: Waste Tetrachloroethylene D040: Waste Trichloroethylene
Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Consumer commodity
Hazard class ORM-D
Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS, toxic
Hazard class 2.2
UN number 1950

Additional information:

Packaging exceptions NOT a Ltd Qty
Item 5T
Labels required 2.2
+6.1
Transport Category 1



IATA

Basic shipping requirements:

Proper shipping name Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III

Hazard class 2.2
Subsidiary hazard class 6.1
UN number 1950

Additional information:

Packaging exceptions NOT a LTD QTY



15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Perchloroethylene: 100.0000
Trichloroethylene: 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - Pennsylvania - RTK (Right to Know) List

Carbon Dioxide	124-38-9	Present
Perchloroethylene	127-18-4	Environmental hazard; Special hazardous substance
Trichloroethylene	79-01-6	Environmental hazard

16. Other Information**HMIS® ratings**

Health: 2*
Flammability: 0
Physical hazard: 0

Prepared by

Regulatory Compliance

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date

13-Nov-2007