

CLASS C SOLUTIONS GROUP BD1535-1 BRAKE CLEANER AND WASH

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
CAS No.	Mixture
Trade Name	CLASS C SOLUTIONS GROUP BD1535-1 BRAKE CLEANER AND WASH. FOR INDUSTRIAL USE ONLY
Product Code	BD-1535

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Automotive Care / Brake Cleaner and Wash
Uses Advised Against	None

Company Identification

Manufactured For:
Class C Solutions Group
a business of MSC Industrial Supply Co.
75 Maxess Road
Melville, NY 11747-3151

Telephone

866-438-6767

Emergency telephone number

Emergency Phone No.

Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Compressed dissolved gas; Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B; Carc. 1B; STOT SE 3

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard Statement(s)

Contains gas under pressure; may explode if heated.
Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
May cause cancer.
May cause drowsiness or dizziness.

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Precautionary Statement(s)

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
 Wash hands and exposed skin after use.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 Contaminated work clothing should not be allowed out of the workplace.
 Use only outdoors or in a well-ventilated area.
 Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.	Hazard classification
Tetrachlorethylene	> 95	127-18-4	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Carc. 2; H351 STOT SE 3; H336 Aquatic Acute 2; H401 Aquatic Chronic 2; H411
Carbon Dioxide	< 5	124-38-9	Compressed dissolved gas; H280

Additional Information - None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Contains: Tetrachlorethylene

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray.

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-Unsuitable Extinguishing Media

Do not use water jet.

Special hazards arising from the substance or mixture

None

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing vapours.

Environmental precautions

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

**Reference to other sections
Additional Information**

None
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing spray. Use product in a well-ventilated area only.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep container tightly closed. Store locked up.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals. Eliminate sources of ignition. Strong Bases. Metals: Zinc, Aluminum, Potassium, Sodium. Metal Powders: Zinc Powder, Aluminum Powder, Magnesium Powder.

Specific end use(s)

Automotive Care / Brake Cleaner and Wash

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Tetrachlorethylene	127-18-4	100 ppm	25 ppm	200 ppm*	100 ppm	*Ceiling
Carbon Dioxide	124-38-9	5,000 ppm	5,000 ppm	-----	30,000 ppm	#

*300 ppm: Acceptable maximum peak above the acceptable ceiling concentration for an 8-hour shift. 5 min in any 3 hours.

Recommended monitoring method

NIOSH 3704 (Perchloroethylene); NIOSH 1003 (Hydrocarbons, halogenated)

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Personal protection equipment

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Eye/face protection



Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol spray
Color.	Colourless
Odor	Chloroform-like
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	-22 °C (-7.6 °F) (Tetrachloroethylene)
Boiling point/boiling range (°C):	121.4°C (250.52 °F) (Tetrachloroethylene)
Flash Point (°C)	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Note 1*
Explosive Limit Ranges	Not available
Vapor pressure (Pascal)	1733 @ 25 °C (Tetrachloroethylene)
Vapor Density (Air=1)	5.76 (Tetrachloroethylene)
Density (g/ml)	1.61 @ 25 °C (Tetrachloroethylene)
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	3.4 (Tetrachloroethylene)
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	0.52 mm ² /s @25 °C (Tetrachloroethylene)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other information

*Note 1 - Product is not classified as flammable, but will burn on contact with flame or exposure to high temperature.

0% VOC

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Incompatible materials

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Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals. Strong Bases. Metals: Zinc, Aluminum, Potassium, Sodium. Metal Powders: Zinc Powder, Aluminum Powder, Magnesium Powder.

Hazardous decomposition product(s)

Chlorine, Hydrogen chloride, Phosgene, Carbon monoxide, Carbon dioxide, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Tetrachloroethylene (CAS No. 127-18-4):

Acute toxicity (calculated / estimated)

Oral: LD50 3005-3835 mg/kg-bw
 Dermal: LD50 >10000 mg/kg-bw
 Inhalation: LC0 ≥20 mg/l (Vapor), 4-hr. rat - May cause drowsiness or dizziness.

Irritation/Corrosivity

Causes skin irritation. Repeated exposure may cause skin dryness or cracking. Causes serious eye irritation.

Sensitization

May cause an allergic skin reaction.

Repeated dose toxicity

Oral: LOEAL 390-540 mg/kg
 Inhalation: LOAEC ≥200 ppm

Carcinogenicity

Suspected of causing cancer.

NTP	IARC	ACGIH	OSHA	NIOSH
Reasonably anticipated	2A	A3	No.	No.

Mutagenicity

Not to be expected

Reproductive toxicity

Not to be expected

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Tetrachloroethylene (CAS No. 127-18-4):

Short term

LC50 (96 hour): 5 mg/L (*Limanda limanda*)
 EC50 (48 hour): 8.5 mg/L (*Daphnia magna*)
 EC50 (72 hour): 3.64 mg/L (*Chlamydomonas reinhardtii*)

Long Term

NOEC (28 days): 2.34 mg/L (*Jordanella floridae*)
 NOEC (28 days): 0.51 mg/L (*Daphnia magna*)
 LOEL (72 hour): 3.64 mg/L (*Chlamydomonas reinhardtii*)

Persistence and degradability

The product is likely to persist in the environment.

Bioaccumulative potential

The product has no potential for bioaccumulation.

Results of PBT and vPvB assessment

The product has high mobility in soil.

Other adverse effects

Not classified as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

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SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols	Aerosols	Aerosols
Transport hazard class(es)	2.2	2.2	2.2
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Tetrachlorethylene	127-18-4	> 95	100

SARA 311/312 - Hazard Categories: See SECTION 2: HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Tetrachlorethylene	127-18-4	> 95

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: February 7, 2019

Hazard Statement(s) and Risk Phrases Listed in:

Hazard Statement(s)

- H280: Contains gas under pressure; may explode if heated.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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