## 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 NON CHLORINATED

BRAKE CLEANER, FOR INDUSTRIAL USE ONLY

Product Code BD-1019-1

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

Identified Use(s)

Automotive Care Product

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)

Flam. Aerosol 1; Compressed dissolved gas; STOT SE 3; Skin Irrit. 2; Eye Irrit. 2; Asp. Tox. 1

### Label elements

Hazard Symbol



Signal word(s)

Hazard Statement(s) Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause drowsiness or dizziness. May cause respiratory irritation.

Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

Precautionary Statement(s)

Use only outdoors or in a well-ventilated area.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe mist/vapours/spray.

Wash hands and exposed skin after use.

Protect from sunlight and do not expose to temperatures exceeding 50

°C/122 °F.

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Keep out of reach of children.

Other hazards

Harmful to aquatic life.

**Additional Information** 

Contains: residual Toluene (CAS No. 108-88-3)  $\sim \leq 0.13\%$ . Studies in animals have shown that repeated exposures to toluene produce adverse reproductive effects. However, in similar animal studies, mixed xylenes containing up to 2.4% residual toluene did not result in reproductive or developmental toxicity. As such, this product has not been classified as a reproductive toxicant.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
			Flam. Liq. 2; H225
Acetone	45 - 55	67-64-1	Eye Irrit. 2; H319
			STOT SE 3; H336
			Flam. Liq. 3; H226
			Eye Irrit. 2; H320
Xylene	20 - 25 1330-20-7	1330-20-7	Skin Irrit. 2; H315
			Asp. Tox. 1; H304
		STOT SE 3; H335	
			Flam. Liq. 2; H225
	15 - 20 426260-76-6 Skin Irrit. 2;	Asp. Tox. 1; H304	
Heptane, branched, cyclic and linear		Skin Irrit. 2; H315	
rieptarie, brancheu, cyclic and ilitear		420200-70-0	STOT SE 3; H336
			Aquatic Acute 2; H401
			Aquatic Chronic 3; H412
Carbon dioxide	5 - 10	124-38-9	Compressed dissolved gas

**Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.:

- Ethylbenzene (CAS No. 100-41-4) ~ ≤ 5%
- Toluene (CAS No. 108-88-3) ~ ≤ 0.13%

## **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 symptoms develop, obtain medical attention. Take off contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

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.

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<sup>\*</sup> The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

Ingestion Do not give anything by mouth to an unconscious person. Do NOT

induce vomiting. Seek medical treatment.

Most important symptoms and effects, both acute and

delayed

Aspiration of droplets may cause pulmonary oedema. May cause

drowsiness and dizziness.

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.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

Highly flammable vapor (flash point below 23°C).

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

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Take precautionary measures against static discharges. Avoid contact

with skin and eyes. Avoid breathing vapors.

Environmental precautions Prevent liquid entering sewers, basements and work pits.

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 None Additional Information None

### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Keep away from heat/sparks/open flames/hot surfaces. - No

smoking. Avoid contact with skin and eyes. Use product in a well-

ventilated area only.

Conditions for safe storage, including any incompatibilities

-Storage temperature Store locked up. Keep in a cool, well ventilated place. Protect from

sunlight. Store at temperatures not exceeding 50 °C / 122 °F. Keep

container tightly closed.

-Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals.

Specific end use(s)

Automotive Care Product

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits** 

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		(8hr TWA)		(STEL)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
Acetone	67-64-1	1000 ppm	500 ppm		750 ppm	^NIC
Toluene	108-88-3	200 ppm	20 ppm	300 ppm*		*10-min. Ceiling
Xylene	1330-20-7	100 ppm	100 ppm		150 ppm	
Ethylbenzene	100-41-4	100 ppm	20 ppm			
Heptane, branched, cylic and linear	426260-76-6	500 ppm**	1500 mg/m <sup>3</sup>			**n-heptane
Carbon dioxide	124-38-9		5000 ppm		30,000 ppm	

<sup>^</sup>NIC = Notice of Intended Changes (ACGIH®);

**Recommended monitoring method** NIOSH 1300 (Ketones I); NIOSH 1500 (hydrocarbons, B.P. 36 - 126

°C); NIOSH 1501 (Hydrocarbons, Aromatic)

Exposure controls

 Appropriate engineering controls
 Provide adequate ventilation to ensure that the occupational exposure

limit is not exceeded.

Personal protection equipment

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 (Viton®/Butyl rubber). 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.



Thermal hazards Not normally required. Use gloves with insulation for thermal

protection, when needed.

Environmental Exposure Controls None known

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance Aerosol Spray
Color. Colorless
Odor Acetone-like
Odor Threshold (ppm) Not available
pH (Value) Not available

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation Rate

Not available

Not available

Flammability (solid, gas)

Explosive Limit Ranges

Vapor pressure (Pascal)

Not applicable
2.5% - 12.8% v/v (Acetone)
2.4 x 10<sup>4</sup> (Acetone)

Vapor Density (Air=1)

Density (g/ml)

Solubility (Water)

Not available

Not available

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Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity @ 20 °C

Explosive properties

Oxidizing properties

Not available

<0.9 mm2/s (Xylene)

Not explosive.

Not oxidizing.

Other information VOC: 44%

#### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidizing agents. Reducing agents. Acids. Bases. Chlorinated

compounds. Aldehydes. Acetone may form explosive mixtures in contact with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide,permonosulfuric acid, potassium tertbutoxide and thioglycol.

Hazardous decomposition product(s)

Carbon monoxide, Carbon dioxide, Acrid smoke

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Acetone (CAS No. 67-64-1)

Acute toxicity Oral LD50 = 5800 mg/kg (rat)

Dermal LD50 >15800 mg/kg (rabbit)

Inhalation LC50 76 mg/L (4 hour(s)) (rat) - Vapours may cause

drowsiness and dizziness.

Irritation / Corrosivity Causes serious eye irritation. Repeated exposure may cause skin

dryness or cracking.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Oral NOAEL = 500 mg/kg/day (rat) (90-days)

Inhalation NOAEC  $\geq$  3.515 mg/L (rat), Vapour

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

MutagenicityNegativeToxicity for reproductionNegativeOther informationNone known.

Xylenes (CAS No.1330-20-7)

Acute toxicity Oral LD50 = 3520 mg/kg (rat)

Dermal LD50 >5000 mg/kg (rabbit)

Inhalation LC50 = 27.6 mg/L (4 hour(s)) (rat) - Vapours may cause drowsiness and dizziness. May cause respiratory irritation.

Irritation / Corrosivity Causes eye irritation. Causes skin irritation. Repeated exposure

may cause skin dryness or cracking.

Sensitisation It is not a skin sensitiser.

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Repeated dose toxicity Oral NOAEL = 900 mg/kg/day (rat) (90-days)

Inhalation NOAEL > 19,000 ppm (rat)

Carcinogenicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

 Mutagenicity
 Negative

 Toxicity for reproduction
 Negative

Other information Contains: residual Toluene (CAS No. 108-88-3) ~ ≤ 0.13%.

Studies in animals have shown that repeated exposures to toluene produce adverse reproductive effects. However, in similar animal studies, mixed xylenes containing up to 2.4% residual toluene did not result in reproductive or developmental toxicity. As such, this product has not been classified as a reproductive toxicant.

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Acute toxicity Oral: LD50 >5 g/kg-bw

Dermal: LD50 >2 g/kg-bw

Inhalation: LC50 = 65 - 103 mg/L (Vapor), 4-hr. rat

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Irritation/Corrosivity Causes skin irritation. Repeated exposure may cause skin dryness

or cracking. May cause eye irritation.

Sensitization It is not a skin sensitizer.

Repeated dose toxicity NOAEC: 12350 mg/m3 (2 yr, inhal., rat, Systemic effects)

LOAEC: 1650 mg/m3 (2 hr, inhal., rat, CNS effects)

May cause drowsiness or dizziness.

Carcinogenicity No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity There is no evidence of mutagenic potential.

Reproductive toxicity Not available

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Short term LL50 (96 hour): >13.4 mg/L (Oncorhynchus mykiss)

EL50 (48 hour): 3 mg/l (Daphnia magna, mobility)

EC50 (96 hour): 13 mg/l (Pseudokirchnerella subcapitata)

Long Term NOELR (28 days) 1.5 mg/l (Fish) QSAR

LOEC (21 days): 0.32 mg/l (Daphnia magna)

NOEL (96 hour) 6.3 mg/l (Algae)

Acetone (CAS No. 67-64-1):

Short term LC50 (96 hour): 5,540 mg/l (Rainbow Trout (Oncorhynchus mykiss))

LC50 (96 hour): 8,300 mg/l (Bluegill Sunfish (Lepomis macrochirus))

LC50 (48 hour(s)): 12,600 – 12,700 mg/l (Daphnia magna) EC50 (14 d): 3.020 mg/l (Algae (Chlorella pyrenoidosa)

EC50 (15 min): 14,500 mg/l (Bacteria (Photobacterium phosphoreum)

Long Term Not available.

Persistence and degradability Readily biodegradable.

Bioaccumulative potential The product has low potential for bioaccumulation.

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Mobility in soilThe product has high mobility in soil.Results of PBT and vPvB assessmentNot classified as PBT or vPvB.

Other adverse effects None known.

#### **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.

## **SECTION 14: TRANSPORT INFORMATION**

	U.S. DOT	Sea transport <u>(IMDG)</u>	Air transport <u>(ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
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)
Acetone	67-64-1	48	5000
m-Xylene	108-38-3	46	1000
o-Xylene	95-47-6	15	1000
p-Xylene	106-42-3	20	100
Ethylbenzene	100-41-4	<19	1000
Toluene	108-88-3	0.14	1000

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

## SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
m-Xylene	108-38-3	46
o-Xylene	95-47-6	15
p-Xylene	106-42-3	20
Ethylbenzene	100-41-4	<19
Toluene	108-88-3	0.14

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

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

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### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 9.

Date of preparation: February 7, 2019

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H222: Extremely flammable aerosol.
- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H402: Harmful to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

#### Training advice: None.

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