NON CHLORINATED BRAKE CLEANER

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	NON CHLORINATED BRAKE CLEANER
Product Code	SP-500628.01

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

Identified Use(s)	Automotive Care Product
Uses Advised Against	None
Company Identification	Spray Products Corporation P.O. Box 737 Norristown, PA 19404
Telephone	(610) 277-1010
Fax	(610) 277-4390
E-Mail (competent person)	johnd@sprayproducts.com

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): **DANGER**

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 ºC/122 ºF.

Keep out of reach of children.

Other hazards	Harmful to aquatic life.
Additional 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Acetone	45 - 55	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Xylene	20 - 25	1330-20-7	Flam. Liq. 3; H226 Eye Irrit. 2; H320 Skin Irrit. 2; H315 Asp. Tox. 1; H304 STOT SE 3; H335
Heptane, branched, cyclic and linear	15 - 20	426260-76-6	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 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%

* 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 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.
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

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
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^3	-----	-----	**n-heptane
Carbon dioxide	124-38-9	------	5000 ppm	------	30,000 ppm	------

^NIC = Notice of Intended Changes (ACGIH®);

Recommended monitoring method	NIOSH 1300 (Ketones I); NIOSH 1500 (hydrocarbons, B.P. 36 - 126 ºC); 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)	Not available
Boiling point/boiling range (°C):	56 (Acetone)
Flash Point (°C)	-17 (Acetone)
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Explosive Limit Ranges	2.5% - 12.8% v/v (Acetone)
Vapor pressure (Pascal)	2.4×10^4 (Acetone)
Vapor Density (Air=1)	Not available
Density (g/ml)	Not available
Solubility (Water)	Not available
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	465 (Acetone)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity @ 20 °C	<0.9 mm2/s (Xylene)
Explosive properties	Not explosive.
Oxidizing properties	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 ≥ 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.

Mutagenicity Negative
Toxicity for reproduction Negative
Other information None 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.
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.

Mobility in soil
The product has high mobility in soil.

Results of PBT and vPvB assessment
Not 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 (IMDG)	Air transport (ICAO/IATA)
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:

☒ Fire ☒ Sudden Release ☐ Reactivity ☒ Immediate (acute) ☒ Chronic (delayed)

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	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Acetaldehyde	75-07-0	Cancer
Benzene	71-43-2	Cancer; Developmental
Cumene	98-82-8	Cancer
Ethylbenzene	100-41-4	Cancer
Toluene	108-88-3	Developmental

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 9.

Date of preparation: July 23, 2015

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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