

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	High Performance Brake Clean Free
Product Code	80-928

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

Identified Use(s)	Automotive Maintenance Product
Uses Advised Against	None
Company Identification	Kimball Midwest

4800 Roberts Road
Columbus, OH 43228

Telephone

(800) 233-1294

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

Label elements

Hazard Symbol



WARNING

Signal word(s)

Hazard Statement(s)

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

Precautionary Statement(s)

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/eye protection.
Wash hands and exposed skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response	<p>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.</p> <p>IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.</p> <p>IF IN EYES: 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.</p> <p>If exposed or concerned: Get medical attention/advice.</p>
Storage	<p>Protect from sunlight. Store in a well-ventilated place.</p> <p>Keep container tightly closed. Store locked up.</p>
Disposal	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
Other hazards:	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Additional Information:	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Tetrachlorethylene	70 - 80	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
Methylene chloride^	10 - 20	75-09-2	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Carc. 2; H351 STOT SE 3; H336 Aquatic Acute 3; H402
Acetone	1 - 5	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Carbon dioxide	1 - 5	124-38-9	Compressed dissolved gas

Additional Information - ^Employers must implement an exposure monitoring program in accordance with 29 CFR 1910.1052 or 29 CFR 1926.1152.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
Skin Contact	Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
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. Seek medical treatment. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

May produce an allergic reaction in persons already sensitised.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

Combustible but not readily ignited. 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

Contains gas under pressure; may explode if heated.

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 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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection. Wash hands and exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Employers must implement an exposure monitoring program in accordance with 29 CFR 1910.1052 or 29 CFR 1926.1152.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep in a cool, well ventilated place. Store at temperatures not exceeding 50 °C / 122 °F.

-Incompatible materials

This product should be stored away from sources of strong heat or oxidizing chemicals.

Specific end use(s)

Automotive Maintenance 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)	
Tetrachlorethylene	127-18-4	100 ppm	25 ppm	200 ppm*	100 ppm	*Ceiling
Methylene chloride^	75-09-2	25 ppm	50 ppm	125 ppm	-----	^
Acetone	67-64-1	1000	250	-----	500	-----

Carbon dioxide	124-38-9	5,000 ppm	5,000 ppm	-----	30,000 ppm	#
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*300 ppm: Acceptable maximum peak above the acceptable ceiling concentration for an 8-hour shift. 5 min in any 3 hours; ^Refer to OSHA 29 CFR 1910.1052 or 29 CFR 1926.1152. *Assure minimum oxygen content of work atmosphere.

Recommended monitoring method

NIOSH 1003 (Hydrocarbons, halogenated); NIOSH 1005 (Methylene Chloride); NIOSH 1300 (Ketones I)

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. Check with protective equipment manufacturer's data. Use gloves only once.



Respiratory protection

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

Prevent release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol spray
Color.	Colorless
Odor	Chloroform-like
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	~ - 84.7 (- 120.5 °F)
Boiling point/boiling range (°C):	~ 87.2 (189 °F)
Flash Point (°C)	> 93 (> 199 °F)
Evaporation Rate	Not available
Flammability (solid, gas)	Note 1*
Explosive Limit Ranges	~ 8 - 45 %
Vapor pressure (Pascal)	~ 9900 (74.25 mmHg)
Vapor Density (Air=1)	~ 4.5
Density (g/ml)	~ 1.46
Solubility (Water)	~ 0.1% @ 25°C
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	~ 420 (788 °F)
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available
Explosive properties	Not explosive
Oxidizing properties	Not oxidising

Other information

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

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
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Acid 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: LOEL 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

Methylene chloride (CAS No. 75-09-2):

Acute toxicity (calculated / estimated)	Oral: LD50 >2000 mg/kg-bw (rat) Dermal: LD20 >2000 mg/kg-bw (rat) Inhalation: LC50 49000 mg/m3 (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	It is not a skin sensitizer.
Repeated dose toxicity	Oral: NOEL 6 mg/kg Inhalation: NOAEC 200 ppm (0.7 mg/L)
Carcinogenicity	Suspected of causing cancer.

NTP	IARC	ACGIH	OSHA	NIOSH
Reasonably anticipated	2A	A3	Yes	Yes

Mutagenicity	Not to be expected
Reproductive toxicity	Not to be expected

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 = 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

None known.

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*)1,1,2-Trichloroethylene (CAS No 79-01-6):

Short term

LC50 (96 hour): 28.3 mg/L (*Jordanella floridae*)IC50 (48 hour): 20.8 mg/L (*Daphnia magna*, mobility)EC50 (72 hour): 36.5 mg/L (*Chlamydomonas reinhardtii*)

Long Term

MATC (28 days): 20.9 mg/L (*Jordanella floridae*)Methylene chloride (CAS No. 75-09-2):

Short term

LC50 (96 hour): 193 mg/L (fish)

EC50 (48 hour): 27 mg/L (crustacea)

Long Term

NOEC (28 days): 142 mg/L (fish)

LOEC (21 days): 6.2 mg/L (crustacea)

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

The product is likely to persist in the environment.

Bioaccumulative potential

The product has no 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>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	70 - 80	100
Methylene chloride	75-09-2	10 - 20	1000
Acetone	67-64-1	1 - 5	5000

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.
Tetrachlorethylene	127-18-4	70 - 80
Methylene chloride	75-09-2	10 - 20

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
Tetrachlorethylene	127-18-4	Cancer
Methylene chloride	75-09-2	Cancer

SECTION 16: OTHER INFORMATION

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

Date of preparation: August 23, 2015

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

Hazard Statement(s)

- H225: Highly flammable liquid and vapor.
- H226: Flammable liquid and vapour.
- 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.
- H402: Harmful to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

Training advice: None.

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