S Permatex

SAFETY DATA SHEET

Revision Date 19-Jun-2015 Version 1

1. IDENTIFICATION

Product identifier

PRO-STRENGTH BRAKE & PARTS CLEANER 19 OZ AE

Other means of identification

Product Code 82606 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Aerosol Brake Cleaner
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address <u>Distributor</u>

ITW Permatex Canada
10 Columbus Blvd. 35 Brownridge Road, Unit 1
Hartford, CT 06106 USA Halton Hills, ON Canada L7G 0C6

Telephone: (800) 924-6994

Company Phone Number 1-87-Permatex

(877) 376-2839

24 Hour Emergency Phone Number Chem-Tel: 800-255-3924

International Emergency: 00+1+ 813-248-0585

Contract Number: MIS0003453

E-mail address mail@permatex.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Flammable aerosols	Category 1

Label elements

Emergency Overview

Danger

Harmful if inhaled Causes skin irritation Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure



Appearance Clear Physical state Liquid Aerosol Odor Ether odor

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Use only outdoors or in a well-ventilated area

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

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

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Precautionary Statements - Storage

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

- Very toxic to aquatic life with long lasting effects

Unknown acute toxicity

2 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
TETRACHLOROETHYLENE	127-18-4	40 - 70	*
XYLENE	1330-20-7	10 - 30	*
ETHYL BENZENE	100-41-4	3 - 7	*
CARBON DIOXIDE	124-38-9	1 - 5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

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Description of first aid measures

General advice Get medical advice/attention if you feel unwell.

Eye contact 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.

Skin contact IF ON SKIN:. Wash skin with soap and water. If skin irritation persists, call a physician.

Wash contaminated clothing before reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms See section 2 for more information.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO2), Dry chemical, Foam

Unsuitable extinguishing media

None.

Specific hazards arising from the chemical

Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or

clothing. Use personal protective equipment as required. Contents under pressure. Do not

puncture or incinerate cans. Remove all sources of ignition.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Soak up with

inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use personal protective equipment as required.

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

Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store locked

up.

Incompatible materials Strong oxidizing agents, Acids, Reactive metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
TETRACHLOROETHYLENE 127-18-4	STEL: 100 ppm TWA: 25 ppm	TWA: 100 ppm (vacated) TWA: 25 ppm (vacated) TWA: 170 mg/m³ Ceiling: 200 ppm	IDLH: 150 ppm
XYLENE 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³	-
ETHYL BENZENE 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m³ STEL: 125 ppm STEL: 545 mg/m³
CARBON DIOXIDE 124-38-9	STEL: 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m³ (vacated) TWA: 10000 ppm (vacated) TWA: 18000 mg/m³ (vacated) STEL: 30000 ppm (vacated) STEL: 54000 mg/m³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m³ STEL: 30000 ppm STEL: 54000 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protectionUse NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as

appropriate.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of

equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid; Aerosol

Appearance Clear
Odor Ether odor

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available
Melting point / freezing point
Boiling point / boiling range > 95 °C / >203 °F

Flash point No information available Gives a flame projection at full valve opening or

flashback at any degree of valve opening

Air = 1

Evaporation rate > 1 Butyl acetate = 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
No information available
No information available
No information available

Vapor density >1
Relative density 1.59-1.69
Water solubility Negligible

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity
No information available

Explosive propertiesNo information available
No information available

Other Information

Softening point No information available
Molecular weight No information available

VOC Content (%) 29%

DensityNo information availableBulk densityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

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Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Temperatures >50 °C / 122 °F.

Incompatible materials

Strong oxidizing agents, Acids, Reactive metals

Hazardous Decomposition Products

Carbon oxides Hydrogen sulfide

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Harmful by inhalation.

Eye contact Contact with eyes may cause irritation. May cause redness and tearing of the eyes.

Skin contact May cause skin irritation and/or dermatitis.

Ingestion Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
TETRACHLOROETHYLENE 127-18-4	= 2629 mg/kg (Rat)	-	= 27.8 mg/L (Rat) 4 h
XYLENE 1330-20-7	= 3500 mg/kg (Rat)	> 1700 mg/kg(Rabbit)> 4350 mg/kg(Rabbit)	= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
ETHYL BENZENE 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
TETRACHLOROETHYLENE 127-18-4	А3	Group 2A	Reasonably Anticipated	Х
XYLENE 1330-20-7	-	Group 3	-	-
ETHYL BENZENE 100-41-4	A3	Group 2B	-	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Chronic toxicity May cause adverse liver effects.

Target Organ Effects Central nervous system, Central Vascular System (CVS), Eyes, kidney, Liver, Respiratory

system, Skin.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2904 mg/kg ATEmix (dermal) 6660 mg/kg ATEmix (inhalation-dust/mist) 4.5 mg/l

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

2 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
TETRACHLOROETHYLENE 127-18-4	500: 96 h Pseudokirchneriella subcapitata mg/L EC50	12.4 - 14.4: 96 h Pimephales promelas mg/L LC50 flow-through 8.6 - 13.5: 96 h Pimephales promelas mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 4.73 - 5.27: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	6.1 - 9.0: 48 h Daphnia magna mg/L EC50 Static
XYLENE 1330-20-7	-	13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static	3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
ETHYL BENZENE 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static		1.8 - 2.4: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Chemical Name	Partition coefficient
TETRACHLOROETHYLENE 127-18-4	2.53 - 2.88
XYLENE 1330-20-7	2.77 - 3.15

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ETIM DENZENE	2.440
ETHYL BENZENE	3.110
100-41-4	
100-41-4	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDisposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D001, D039, F002

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
TETRACHLOROETHYLENE 127-18-4	U210	Included in waste streams: F001, F002, F024, F025, F039, K016, K019, K020, K073, K116, K150, K151	0.7 mg/L regulatory level	U210
XYLENE 1330-20-7	-	Included in waste stream: F039	-	U239
ETHYL BENZENE 100-41-4	-	Included in waste stream: F039	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
TETRACHLOROETHYLENE 127-18-4	Category I - Volatiles	-	Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
TETRACHLOROETHYLENE	Toxic
127-18-4	
XYLENE	Toxic
1330-20-7	Ignitable
ETHYL BENZENE	Toxic
100-41-4	Ignitable

14. TRANSPORT INFORMATION

DOT

UN/ID no 1950

Proper shipping name: Aerosols, Limited Quantity (LQ)

Hazard Class 2.1

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Marine pollutant

Number

Emergency Response Guide

This product contains a chemical which is listed as a marine pollutant according to DOT.

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IATA

UN/ID no ID 8000

Proper shipping name: Consumer commodity

Hazard Class 9 ERG Code 9L

IMDG

UN/ID no 1950

Proper shipping name: Aerosols, Limited Quantity (LQ)

Hazard Class 2.1 EmS-No F-D, S-U

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO.

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
TETRACHLOROETHYLENE - 127-18-4	0.1
XYLENE - 1330-20-7	1.0
ETHYL BENZENE - 100-41-4	0.1

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
TETRACHLOROETHYLENE 127-18-4	-	X	X	-
XYLENE 1330-20-7	100 lb	-	-	Х
ETHYL BENZENE 100-41-4	1000 lb	Х	X	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
TETRACHLOROETHYLENE	1 lb 100 lb	-	RQ 1 lb final RQ
127-18-4			RQ 0.454 kg final RQ RQ 100 lb
			final RQ
			RQ 45.4 kg final RQ
XYLENE	100 lb	-	RQ 100 lb final RQ
1330-20-7			RQ 45.4 kg final RQ
ETHYL BENZENE	1000 lb	-	RQ 1000 lb final RQ
100-41-4			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
TETRACHLOROETHYLENE - 127-18-4	Carcinogen	
ETHYL BENZENE - 100-41-4	Carcinogen	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
TETRACHLOROETHYLENE 127-18-4	Χ	X	X
XYLENE 1330-20-7	X	Х	X
ETHYL BENZENE 100-41-4	Х	X	Х
CARBON DIOXIDE 124-38-9	Χ	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

NFPAHealth hazards 2Flammability 4Instability 0-HMISHealth hazards 2Flammability 4Physical hazards 0Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

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Disclaimer

The information provided in this Material 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.

End of Safety Data Sheet