



Univar USA Inc Material Safety Data Sheet

MSDS No:

Version No:

Order No:

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052
(425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call
Chemtrec - (800) 424-9300

The Version Date and Number for this MSDS is : 08/05/2008 - #003

PRODUCT NAME: BRAKE PARTS CLEANER
MSDS NUMBER: 71484
DATE ISSUED: 04/11/2005
SUPERSEDES: NEW
ISSUED BY: 000099

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this MSDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: BRAKE PARTS CLEANER
COMPANY IDENTITY: UNIVAR USA INC.
COMPANY ADDRESS: 17425 NE UNION HILL RD.
COMPANY CITY: REDMOND, WA 98052
COMPANY PHONE: 1-425-889-3400
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS:
45-55% HEXANE (MIXED ISOMERS) (110-54-3)(203-777-6),
20-30% ISOPROPANOL (67-63-0)(200-661-7),
15-25% N-HEXANE (110-54-3)
Number in first parentheses is CAS #, number in second parentheses is
European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:
R12 Extremely Flammable.
R18 In use, may form flammable/explosive vapor-air mixture.
R65 Harmful: may cause lung damage if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY STATEMENTS:

Annotation:

S7 Keep container tightly closed.
S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S29 Do not empty into drains.
S51 Use only in well ventilated areas.
S24/25 Avoid contact with skin and eyes.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing.
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult,
give oxygen. If breathing has stopped give artificial respiration.

SWALLOWING:

If swallowed, get immediate medical advice. Inducing vomiting may cause
aspiration into the lungs.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

NFPA Class B extinguishers (Carbon Dioxide or foam)for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool
closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield, bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.
Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Closed containers may explode if exposed to extreme heat.
Applying to hot surfaces requires special precautions.
Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES

Keep unprotected personnel away. Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons

Annotation:

without proper protection should be kept from area until cleaned up.

OTHER PRECAUTIONS

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container is very hazardous. Continue all label precautions!

STORAGE

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone. Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids. Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

Annotation:

APPEARANCE : Liquid, Water-White
ODOR : Alcohol
BOILING RANGE : 64 68 83 C / 148 156 182 F
AUTO IGNITION TEMPERATURE : 321 C / 610 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol): 1.4
FLASH POINT (TEST METHOD): -26 C / -16 F (TCC) (Lowest Component)
FLAMMABILITY CLASSIFICATION: Class I B
GRAVITY @ 68/68 F / 20/20 C :
API : 68.3
SPECIFIC GRAVITY (Water=1) : .708
POUNDS/GALLON : 5.900
VOC'S (>0.44 Lbs/Sq In) : 100.0 Vol. % / 708.3 g/L / 5.899 Lbs/Gal
TOTAL VOC'S (TVOC) : 100.0 Vol. % / 708.3 g/L / 5.899 Lbs/Gal
NONEXEMPT VOC'S (CVOC) : 100.0 Vol. % / 708.3 g/L / 5.899 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS): 21.7 Wt. % / 153.5 g/L / 1.278 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C: 108.4
NONEXEMPT VOC PARTIAL PRESSURE
(mm of Hg @ 20 C) 108.4
VAPOR DENSITY (air=1) : 2.6
WATER ABSORPTION : Appreciable
REFRACTIVE INDEX : 1.383
MIXED ANILINE POINT(Acid Insol): 67 C / 154 F

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions.

CONDITIONS TO AVOID

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID

Isolate from strong oxidizers such as permanganates, chromates & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA(OSHA)	TLV(ACGIH)	HAP
Hexane (Mixed Isomers)	110-54-3	500 ppm	500 ppm	Yes
Isopropanol	67-63-0	400 ppm	200 ppm A4	No
n-Hexane	110-54-3	500 ppm	50 ppm	Yes

In addition to EPA Hazardous Air Pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%):
Benzene

Annotation:

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Hexane (Mixed Isomers)	110-54-3	None Known	1000 ppm
Isopropanol	67-63-0	None Known	400 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis.
Primary irritation to eyes, redness, tearing, blurred vision.
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs. Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

n-Hexane may cause peripheral neuropathy.
Leukemia been reported in humans from Benzene. This product contains less than 72 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA
		LOWEST KNOWN LD50 (ORAL)
Isopropanol	67-63-0	5840.0 mg/kg(Rats)
		LOWEST KNOWN LC50 (VAPORS)
Isopropanol	67-63-0	16000 ppm (Rats)
		LOWEST KNOWN LD50 (SKIN)
Isopropanol	67-63-0	16400.0 mg/kg (Rabbits)

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is: Chub 1000 ppm or mg/L (24 hour exposure).
Keep out of sewers and natural water supplies.

Annotation:
MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is partially biodegradable.

ACCUMULATION

This product does not accumulate or bio-magnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle/dispose of observing national, regional, state, provincial and local health, safety & pollution laws.

If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

IF CONTAINER HAS > PRODUCT RQ (SEE SECTION 15) PUT "RQ," BEFORE SHIPPING NAME.

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG-II

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: Paint Related Material, 3, UN1263, PG-II

IMO / IMDG: Paint Related Material, 3, UN1263, PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT %	(REG. SECTION)	RQ(LBS)
*Hexane (Mixed Isomers)	110-54-3	50	(311,312,313)	5000
*n-Hexane	110-54-3	21	(311,312,313,RCRA)	5000

> 9890 LB / 4495 KG OF THIS PRODUCT IN 1 CONTAINER EXCEEDS THE "RQ" OF HEXANE (MIXED ISOMERS).

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively. Failure to report may result in substantial civil and criminal penalties.

State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:

Annotation:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN
CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of
the following countries:

Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 1, HEALTH (HMIS): 2, FLAMMABILITY: 3, REACTIVITY: 0

This information is intended solely for the use of individuals
trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

Employees should be made aware of all hazards of this material (as stated
in this MSDS) before handling it.

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For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

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