

Material Safety Data Sheet

Revision Date 02-Dec-2013

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code 54474
Product name Non-Chlorinated Brake Klean
Recommended Use Cleaner / Solvent

Supplier Lawson Products, Inc.
 8770 W.Bryn Mawr Ave.- Suite 900
 Chicago, IL 60631
 1-866-529-7664
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Irritant. Flammable.

Aggravated Medical Conditions
None Known.

Principal Routes of Exposure
Eyes. Skin contact. Inhalation.

Potential health effects

Eyes May cause the following effects: Irritation. Redness. Itching. Burning sensation.

Skin Repeated or prolonged exposure may cause: Skin Irritation. Redness. Itching. Burning sensation.

Inhalation Repeated or prolonged exposure may cause the following effects: Headaches. Dizziness. Nausea. Upper respiratory tract irritation. Central nervous system effects. Loss of coordination. Extreme overexposure may cause. Reproductive system damage. Liver damage. Possible unconsciousness. Death. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Ingestion May be harmful if swallowed. Repeated or prolonged exposure may cause: Urinary system effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Acetone	67-64-1	30-60
Xylene (mix)	1330-20-7	30-60
Petroleum distillates, hydrotreated light	64742-47-8	7-13
Ethyl benzene	100-41-4	5-10
Carbon Dioxide	124-38-9	3-7

4. FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention.

Skin contact Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.

Ingestion Do Not induce vomiting. Seek medical attention.

Inhalation Remove from exposure. Restore breathing. Keep warm and quiet. Contact physician if breathing difficulty develops.

5. FIRE FIGHTING MEASURES

Flash point °C 13.3
Flash point °F 56
Method Pensky-Martens C.C.

Autoignition temperature °C Not Applicable
Autoignition temperature °F Not Applicable

Flammability Limits (% in Air)

Upper 12.8
Lower 0.7

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical powder. Alcohol foam.

Special protective equipment for firefighters

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

Fire and Explosion Hazards

Containers exposed to extreme heat may burst. Contact with open flame or hot surfaces may generate toxic fumes. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up

Ventilate area to maintain exposure below permissible exposure limits. Eliminate all sources of ignition. Soak up with inert absorbent material.

7. HANDLING AND STORAGE**Handling**

Ensure adequate ventilation. Keep container closed when not in use. Remove all sources of ignition. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Avoid contact with skin and eyes. Avoid breathing vapors. Avoid breathing spray mist. Contents under pressure. Do not puncture or incinerate. Check to make sure that all equipment is properly grounded and installed to satisfy electrical classification requirements. Ground and bond containers when transferring material. Do not take internally. Keep out of reach of children.

Storage

Store in temperatures below 120 degrees F (50 degrees C) . Store in a well ventilated area. Vapors may accumulate readily and may ignite explosively .

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Petroleum distillates, hydrotreated light	-	-	-	-
Ethyl benzene	100 ppm 435 mg/m ³	-	20 ppm	-
Acetone	1000 ppm 2400 mg/m ³	-	500 ppm	750 ppm
Carbon Dioxide	5000 ppm 9000 mg/m ³	-	5000 ppm	30000 ppm
Xylene (mix)	100 ppm 435 mg/m ³	-	100 ppm	150 ppm

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, general, or both, to keep below the TLV's in the worker's breathing zone and the general area. General: as necessary.

Hygiene measures

Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment. Wear a NIOSH approved organic vapor/particulate respirator.

Hand Protection

Gloves are not required in normal use. The following gloves are recommended for prolonged or repeated contact: . Chemical resistant gloves.

Eye protection

Use safety eyewear designed to protect against splash of liquids.

Skin and body protection

None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Colorless
Odor	No information available
Odor Threshold	Not Applicable
pH	Not Applicable
Specific Gravity	0.83
Vapor pressure	Not Applicable
Density	6.93 lb/gal
Vapor density	>1 (Air = 1)
Evaporation Rate	>1 (Ether =1)
Water solubility	No data available
VOC Content	55%
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	< -18 - 237
Boiling point/range °F	< 0 - 460
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	13.3
Flash point °F	56

10. STABILITY AND REACTIVITY**Stability**

Stable.

Conditions to avoid

None known.

Incompatibility

None.

Hazardous Decomposition Products

Carbon dioxide. Carbon monoxide.

Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Petroleum distillates, hydrotreated light</i> 64742-47-8	5000 mg/kg	2000 mg/kg	5.2 mg/L
<i>Ethyl benzene</i> 100-41-4	3500 mg/kg	15354 mg/kg	17.2 mg/L
<i>Acetone</i> 67-64-1	-	-	50100 mg/m ³
<i>Carbon Dioxide</i> 124-38-9	-	-	-
<i>Xylene (mix)</i> 1330-20-7	4300 mg/kg	-	47635 mg/L

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Synergistic Products None known

Specific Hazards Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

Potential health effects

Sensitization None known

Chronic toxicity Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

Mutagenic effects None known

Teratogenic effects None known

Reproductive toxicity None known

Target Organ Effects Prolonged or repeated occupational overexposure may affect the following: Nervous system. Liver. Reproductive System.

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Petroleum distillates, hydrotreated light	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl benzene	A3	Group 2B	Not Listed	Not Listed	Listed
Acetone	A4	Not Listed	Not Listed	Not Listed	Not Listed
Carbon Dioxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Xylene (mix)	A4	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

Acetone
Microtox Data
Photobacterium phosphoreum EC50=14500 mg/L (15 min)
Water Flea Data
Daphnia magna EC5010294 - 17704 mg/L (48 h)
Daphnia magna EC5012600 - 12700 mg/L (48 h)

Xylene (mix)
Microtox Data
Photobacterium phosphoreum EC50=0.0084 mg/L (24 h)
Water Flea Data
Gammarus lacustris LC50=0.6 mg/L (48 h)
water flea EC50=3.82 mg/L (48 h)

Ethyl benzene
Microtox Data
Photobacterium phosphoreum EC50=9.68 mg/L (30 min)
Nitrosomonas EC50=96 mg/L (24 h)

Water Flea Data
Daphnia magna EC501.8 - 2.4 mg/L (48 h)

13. DISPOSAL CONSIDERATIONS

Disposal Information
 As supplied, this product is a RCRA Hazardous Waste . Waste must be tested for ignitability to determine EPA hazardous waste numbers. Do not puncture or incinerate. Depressurize before disposal. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
 UN1950 Aerosols, flammable, 2.1. Consumer commodity, ORM-D.

TDG
 UN1950 AEROSOLS, flammable, 2.1 Consumer commodity, ORM-D.

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Ethyl benzene	Listed
Xylene (mix)	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Petroleum distillates, hydrotreated light	Not Listed	Not Listed	Not Listed
Ethyl benzene	Listed	Listed	Carcinogen
Acetone	Not Listed	Listed	Not Listed
Carbon Dioxide	Not Listed	Listed	Not Listed
Xylene (mix)	Not Listed	Listed	Not Listed

WARNING: This product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Petroleum distillates, hydrotreated light	X	X	-	X
Ethyl benzene	X	X	-	X
Acetone	X	X	-	X
Carbon Dioxide	X	X	-	X
Xylene (mix)	X	X	-	X

CPR
 This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

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Chlorinated Brake Klean**

16. OTHER INFORMATION

HMIS

Health - 2 *

Flammability - 3

Physical Hazard - 0

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.