

# BERKEBILE BRAKE CLEANER B-3220

## 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	BERLEBILE BRAKE CLEANER B-3220
Product Code	EN-4121

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

Identified Use(s)	Automotive maintenance product
Uses Advised Against	None

Company Identification	The Berkebile Oil Company INC. P.O. Box 715 Somerset, PA 15501
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Telephone	(814) 443-1656
Fax	(814) 443-2873
E-Mail (competent person)	<a href="mailto:sds@sprayproducts.com">sds@sprayproducts.com</a>

#### Emergency telephone number

Emergency Phone No.	<b>Transportation Emergency:</b> CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1; Compressed dissolved gas; STOT SE 1; Repr. 2; STOT RE 2; Skin Irrit. 2; Eye Irrit. 2; Asp. Tox. 1

#### Label elements

Hazard Symbol



**DANGER**

Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated.  
Causes damage to organs: Optic nerve, Central nervous system. May cause drowsiness or dizziness.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure:  
Inhalation - neuropsychological effects, auditory dysfunction and effects on colour vision.  
Causes skin irritation. Causes serious eye irritation.  
Repeated exposure may cause skin dryness or cracking.  
May be harmful if swallowed and enters airways.

# BERKEBILE BRAKE CLEANER B-3220

## Precautionary Statement(s)

Do not handle until all safety precautions have been read and understood.  
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.  
Wear protective gloves/eye protection.  
Wash hands and exposed skin after use.  
Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.  
Keep out of reach of children.

## Other hazards

None

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
Acetone	40-60	67-64-1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336
Heptane, branched, cyclic and linear	10 - 30	426260-76-6	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336
Methanol	10-20	67-56-1	Flam. Liq. 2; H225 Acute Tox. 3; H301, H311, H331 STOT SE 1; H370
Toluene	5-15	108-88-3	Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 2; H373 Aquatic Chronic 4; H412
Carbon dioxide	2-10	124-38-9	Compressed dissolved gas

**Additional Information** - None

\* 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.

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.

# BERKEBILE BRAKE CLEANER B-3220

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 cause damage to organs: (Optic nerve, Central nervous system). May be harmful if swallowed and enters airways.

**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  
-Unsuitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or water spray. 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. Avoid breathing spray.

**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**

# BERKEBILE BRAKE CLEANER B-3220

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Acetone	67-64-1	1000	500	-----	750	^NIC
Methanol	67-56-1	200 ppm	200 ppm	----	250 ppm	None
Toluene	108-88-3	200	20	300*	-----	*10-min. Ceiling
Heptane, branched, cyclic and linear	426260-76-6	500 ppm**	1500 mg/m <sup>3</sup>	-----	-----	**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 2000 (Methanol); NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C) ; NIOSH 1501 (Hydrocarbons, Aromatic); NIOSH 1459 (Methyl Acetate)

## 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 (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. Check with protective equipment manufacturer's data.

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

Liquid

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 x 10<sup>4</sup> (Acetone)

Vapor Density (Air=1)

Not available

Density (g/ml)

Not available

Solubility (Water)

Not available

# BERKEBILE BRAKE CLEANER B-3220

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
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Avoid contact with heat and ignition sources.
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition product(s)</b>	Carbon monoxide, Carbon dioxide, Acrid smoke

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

### Information on toxicological effects

#### Methanol (CAS# 67-56-1)

<b>Acute toxicity *</b>	LD50 (oral, monkey): 7000 mg/kg-bw LD0 (oral, rat): ≥ 2528 mg/kg-bw LC50 (inhal., cat, 6-hours): 43.68 mg/L LC50 (inhal., monkey, 4-hours): 52 mg/L Ingestion may damage the optic nerve. May cause dizziness and drowsiness.
<b>Irritation</b>	May cause eye irritation.
<b>Sensitisation</b>	It is not a skin sensitiser.
<b>Repeated dose toxicity</b>	NOAEC (2-yr. inhal., mouse): ≥ 1.3 mg/L
<b>Developmental Toxicity</b>	Negative. Not a specific developmental toxin.
<b>Toxicity for reproduction</b>	Negative. Not a specific reproductive toxin.
<b>Mutagenicity</b>	Negative

#### **Carcinogenicity**

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

<b>Other information</b>	* ATE (oral) = 100 mg/kg * ATE (dermal) = 300 mg/kg * ATE (inhalation) = 3 mg/L
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\*ATE = Acute Toxicity Estimate for purposes of classification

#### Acetone (CAS No. 67-64-1)

<b>Acute toxicity</b>	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.
<b>Irritation / Corrosivity</b>	Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.
<b>Sensitisation</b>	It is not a skin sensitiser.
<b>Repeated dose toxicity</b>	Oral NOAEL = 900 mg/kg/day (rat) (90-days) Inhalation NOAEL ≥ 19,000 ppm (rat)

# BERKEBILE BRAKE CLEANER B-3220

## 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.

## Toluene (CAS No. 108-88-3)

### Acute toxicity

Oral LD50 = 5580 mg/kg (rat)  
Dermal LD50 >5000 mg/kg (rabbit)  
Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause drowsiness and dizziness.

### Irritation / Corrosivity

Causes serious eye irritation. Causes skin irritation.

### Sensitisation

It is not a skin sensitiser.

### Repeated dose toxicity

Inhalation NOAEC = 1131 mg/m<sup>3</sup> (rat), 2 Year(s) - May cause damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on colour vision.

## Carcinogenicity

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

Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter (rat)

## Heptane, branched, cyclic 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/m<sup>3</sup> (2 yr, inhal., rat, Systemic effects)  
LOAEC: 1650 mg/m<sup>3</sup> (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

### Substances in preparations / mixtures:

Toluene (CAS No. 108-88-3)

# BERKEBILE BRAKE CLEANER B-3220

Acute toxicity	LC50 (96 hour): 5.5 mg/l ( <i>Oncorhynchus kisutch</i> ) EC50 (48 hour): 3.78 mg/l ( <i>Ceriodaphnia dubia</i> ) EC50 (3 hour): 134 mg/l (Algae)
Long Term Toxicity	NOEC (40 days): 1.39 mg/l ( <i>Oncorhynchus kisutch</i> ) NOEC (7 days): 0.74 mg/l ( <i>Ceriodaphnia dubia</i> )

## Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Short term	LL50 (96 hour): >13.4 mg/L ( <i>Oncorhynchus mykiss</i> ) EL50 (48 hour): 3 mg/l ( <i>Daphnia magna</i> , mobility) EC50 (96 hour): 13 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
Long Term	NOELR (28 days) 1.5 mg/l ( <i>Fish</i> ) QSAR LOEC (21 days): 0.32 mg/l ( <i>Daphnia magna</i> ) NOEL (96 hour) 6.3 mg/l (Algae)
<b>Persistence and degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	The product has no potential for bioaccumulation.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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## SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
<b>UN number</b>	1950	1950	1950
<b>Proper Shipping Name</b>	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1	2.1	2.1
<b>Packing group</b>	Not applicable	Not applicable	Not applicable
<b>Environmental hazards</b>	None assigned	None assigned	None assigned
<b>Special precautions for user</b>	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	30 - 50	5000
Methanol	67-56-1	5 - 10	5000
Toluene	108-88-3	5 - 10	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.
Methanol	67-56-1	5 - 10
Toluene	108-88-3	5 - 10

# BERKEBILE BRAKE CLEANER B-3220

## 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
Methanol	67-56-1	Developmental
Toluene	108-88-3	Developmental, Female Reproductive
Benzene*	71-43-2	Cancer, Developmental (male)
Acetaldehyde*	75-07-0	Cancer
Cumene*	98-82-8	Cancer

\*Trace to none.

## SECTION 16: OTHER INFORMATION

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

Date of preparation: March 30,2017

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

### Hazard Statement(s)

- H225: Highly flammable liquid and vapor.
- H301: Toxic if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H336: May cause drowsiness or dizziness.
- H361: Suspected of damaging fertility or the unborn child.
- H370: Causes damage to organs.
- H373: May cause damage to organs through prolonged or repeated exposure.

Training advice: None.

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