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 Non

Company Identification The Berkebile Oil Company INC.

P.O. Box 715 Somerset, PA 15501

Telephone (814) 443-1656 Fax (814) 443-2873

E-Mail (competent person) <u>sds@sprayproducts.com</u>

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)

Label elements

Hazard Symbol

Signal word(s)

Hazard Statement(s)

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



igriai word(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.

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

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.

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^{*} The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

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 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

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

		(8hr TWA)		(STEL)		
SUBSTANCE.	CACNO	PEL	TLV	PEL	TLV	Notes
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
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, cylic and linear	426260-76-6	500 ppm**	1500 mg/m ³			**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.

oneck with protective equipment manufacturers data.

Respiratory protection

Thermal hazards



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

Not normally required. Use gloves with insulation for thermal

protection, when needed.

Liquid

Colorless

Acetone-like

Not available

Not available

Environmental Exposure Controls None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance
Color.
Odor
Odor Threshold (ppm)
pH (Value)

 $\begin{array}{ll} \mbox{Melting Point (°C) / Freezing Point (°C)} & \mbox{Not available} \\ \mbox{Boiling point/boiling range (°C):} & 56 \mbox{ (Acetone)} \\ \mbox{Flash Point (°C)} & -17 \mbox{ (Acetone)} \\ \end{array}$

Flash Point (°C)

Evaporation Rate
Flammability (solid, gas)

Explosive Limit Ranges

Control (Acetone)

Not available

Not applicable

2.5% - 12.8% v/v (Acetone)

Vapor pressure (Pascal)2.4 x 104 (Acetone)Vapor Density (Air=1)Not availableDensity (g/ml)Not availableSolubility (Water)Not available

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Not available

Not available

Kinematic Viscosity <20

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Other information Not available

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, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Methanol (CAS# 67-56-1)

Acute toxicity * 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.

IrritationMay cause eye irritation.SensitisationIt is not a skin sensitiser.

 Repeated dose toxicity
 NOAEC (2-yr. inhal., mouse): ≥ 1.3 mg/L

 Developmental Toxicity
 Negative. Not a specific developmental toxin.

 Toxicity for reproduction
 Negative. Not a specific reproductive toxin.

Mutagenicity Negative

Carcinogenicity

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

 Other information
 * ATE (oral) = 100 mg/kg

 * ATE (dermal) = 300 mg/kg

* ATE (inhalation) = 3 mg/L

*ATE = Acute Toxicity Estimate for purposes of classification

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)

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Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

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

MutagenicityNegativeToxicity for reproductionNegativeOther informationNone 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/m³ (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, cylic 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/m3 (2 yr, inhal., rat, Systemic effects)

LOAEC: 1650 mg/m3 (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)

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Acute toxicity LC50 (96 hour): 5.5 mg/l (Oncorhynchus kisutch)

EC50 (48 hour): 3.78 mg/l (Ceriodaphnia dubia)

EC50 (3 hour): 134 mg/l (Algae)

Long Term Toxicity NOEC (40 days): 1.39 mg/l (Oncorhynchus kisutch)

NOEC (7 days): 0.74 mg/l (Ceriodaphnia dubia)

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

Short term LL50 (96 hour): >13.4 mg/L (Oncorhynchus mykiss)EL50 (48 hour): 3 mg/l

(Daphnia magna, mobility)

EC50 (96 hour): 13 mg/l (Pseudokirchnerella subcapitata)

Long Term NOELR (28 days) 1.5 mg/l (Fish) QSAR

LOEC (21 days): 0.32 mg/l (Daphnia magna)

NOEL (96 hour) 6.3 mg/l (Algae)

Persistence and degradability Readily biodegradable.

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soil Not available.

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.S. DOT	Sea transport <u>(IMDG)</u>	Air transport (ICAO/IATA)
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
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
Proper Shipping Name Transport hazard class(es) Packing group Environmental hazards	Aerosols, flammable 2.1 Not applicable None assigned	Aerosols, flammable 2.1 Not applicable None assigned	Aerosols, flammable 2.1 Not applicable 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

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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