

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Cre Oil
Product Code: PF610
Product Use: Penetrant

Chemical Type: Aerosol

Manufacturer: DOWCO LLC
Address: 1374 Markle Street
Akron, Ohio 44306

Revision Date: 01/29/2021
Emergency:
Phone: (833) 797-1321

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable Aerosols	Category 1
Gases under pressure	Compressed Gas
Skin Irritation	Category 2
Eye Irritation	Category 2A
Specific Target Organ Toxicity Single Exposure	Category 3 (Respiratory Irritation, CNS)
Aspiration Hazard	Category 1

Hazard pictogram(s)



Signal Word : Danger

Hazard Statements:

Extremely Flammable Aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary Statement(s)

Keep away from heat, sparks, open flames, and 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.
Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools.
Take precautionary measures against static discharge. Avoid breathing mist, vapors or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, eye protection and face protection. IF SWALLOWED: Immediately call a POISON CENTER.
Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
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 attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER if you feel unwell.
In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F
Store in a well-ventilated place.
Dispose of contents and container in accordance with local and national regulations.

3. Composition / Information on Ingredients

Chemical Name	CAS#	%
LVP Aliphatic Hydrocarbon	64742-47-8	40-60
Severely Hydrotreated Petroleum Distillates	64742-52-5	30-50
Diisobutyl Ketone	108-83-8	5-15
Proprietary Ingredient	Proprietary	1-10
Dipropylene glycol n-butyl ether	29911-28-2	1-5
Diacetone Alcohol	123-42-2	<3
Isobutyl Alcohol	78-83-1	<3
Carbon Dioxide	124-38-9	1-10

4. First Aid Measures

Inhalation: Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.

Skin Contact: Wash affected skin with soap and water. If symptoms develop, obtain medical attention.

Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion: Do not induce vomiting. Make victim drink plenty of water. Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed

Acute: May cause irritation to eyes and skin. May cause drowsiness and dizziness. May cause headache, nausea and vomiting. Aspiration of droplets may cause pulmonary edema.

Delayed and chronic effects: Generally similar to acute effects. Allergic contact dermatitis may be seen in sensitive individuals following repeated exposures. Repeated and/or prolonged contact may cause dermatitis.

Indication of the immediate medical attention and special treatment needed

Treat symptomatically. No data available.

5. Fire Fighting Measures

Flash Point: Flash point of liquid portion 118°F (TCC) minimum

Flammable limits in air, % by volume:

Upper: No Information

Lower: No Information

Extinguishing Media: Dry chemical, carbon dioxide, halon, or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials and carbon dioxide will displace oxygen, take proper precautions when using these materials.

Unusual Fire & Explosion Hazards: This material may be ignited by heat, sparks, flames or other ignition sources (static electricity). Vapors are heavier than air and will collect in low areas (sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures: Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions

Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

7. Handling and Storage

Handling:

Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good workplace practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld, or apply heat to empty containers Do not incinerate.

Storage:

Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials.

8. Exposure Controls / Personal Protection

Protective Equipment: Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls: General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

<u>Chemical Name</u>	<u>Exposure Limits</u>
Carbon Dioxide	OSHA (PEL) 5000 ppm ACGIH TLV 5000 ppm
LVP Aliphatic Hydrocarbon	ACGIH TLV (United States, 4/2014). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
Severely Hydrotreated Petroleum Distillates	5 mg/m ³ TWA OSHA PEL (mist) 5 mg/m ³ TWA ACGIH TLV (inhalable fraction)
Diisobutyl Ketone	50 ppm TWA OSHA PEL 25 ppm TWA ACGIH TLV
Proprietary Ingredient	5 mg/m ³ TWA OSHA PEL (mist) 5 mg/m ³ TWA ACGIH TLV (mist)
Dipropylene glycol n-butylether	None Established MFG Suggested Aerosol TWA 10mg/m ³
Diacetone Alcohol	50 ppm TWA OSHA PEL 50 ppm TWA ACGIH TLV
Isobutyl Alcohol	NIOSH REL (TWA) (ppm) 50 ppm 100 ppm TWA OSHA PEL 50 ppm TWA ACGIH TLV NIOSH REL (TWA) (ppm) 50 ppm

Other Suggested Equipment: Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised: We take no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

9. Physical and Chemical Properties

Appearance Form: Red Mist as dispensed from aerosol can.

Color: Red

Evaporation Rate: 1 (solvent)

Flammability: Extremely Flammable

Initial Boiling point and boiling range: NE

Flammability: Extremely flammable

Vapor density >1 (Air=1)

Solubility: Negligible

Auto-ignition temperature: NE

Viscosity: NA

Flammable limits in air, % by volume:

Upper:NE

Lower:NE

Odor: Mild, Hydrocarbon

PH: NA

Flash Point: Liquid 132°F (TCC)

Vapor pressure: >30 psi

Relative density NE

Partition coefficient: NE

Decomposition temperature: NE

10. Stability and Reactivity

Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Heat, sparks, fire, and oxidizing agents.

Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous decomposition products: Carbon Dioxide, Carbon oxides

11. Toxicological Information

Component data:

Dipropylene glycol n-butyl ether

Acute oral toxicity - Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. LD50, Rat, 3,700 mg/kg

Acute dermal toxicity - Prolonged skin contact is unlikely to result in absorption of harmful amounts. LD50, Rat, > 2,000 mg/kg No deaths occurred at this concentration.

Acute inhalation toxicity - Prolonged exposure is not expected to cause adverse effects. Based on the available data, narcotic effects were not observed. Based on the available data, respiratory irritation was not observed. LC50, Rat, 4 Hour, dust/mist, > 2.04 mg/l No deaths occurred at this concentration.

Skin corrosion/irritation: Prolonged contact may cause slight skin irritation with local redness. Serious eye damage/eye irritation. May cause slight eye irritation. May cause slight corneal injury.

Sensitization: Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin reactions when tested in guinea pigs. For respiratory sensitization: No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Systemic Toxicity (Repeated Exposure)

In animals, effects have been reported on the following organs: Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans.

Carcinogenicity: For similar material(s): Did not cause cancer in laboratory animals.

Teratogenicity: Did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive toxicity: In animal studies, did not interfere with reproduction.

Mutagenicity: In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Aspiration Hazard: Based on physical properties, not likely to be an aspiration hazard.

Further information: Solvents may degrease the skin

Diacetone alcohol (123-42-2)

LD50 oral rat > 4 g/kg

LD50 dermal rat > 1875 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rat, Male/female, Experimental value)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : May cause respiratory irritation.
Specific target organ toxicity – repeated exposure: Not classified
Aspiration hazard : Not classified
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after eye contact : Eye irritation.

Isobutyl Alcohol

Acute oral toxicity : LD50 Oral (Rat): 3,350 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): 2,460 mg/kg
Skin corrosion/irritation: Causes skin irritation.
isobutanol: Species: Rabbit Exposure time: 24 h Result: slight
Serious eye damage/eye irritation: Not classified based on available information.
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.
Germ cell mutagenicity: Not classified based on available information.
Carcinogenicity: Not classified based on available information.
Reproductive toxicity: Not classified based on available information
STOT-single exposure: May cause respiratory irritation. May cause drowsiness or dizziness
STOT-repeated exposure: Not classified based on available information.
Aspiration toxicity: Not classified based on available information.

Severely Hydrotreated Petroleum Distillates 64742-52-5

Acute toxicity: Not classified.
Skin corrosion/irritation: Not classified. May be irritating to the skin.
Serious eye damage/eye irritation: Not classified. May cause minor irritation on eye contact.
Respiratory sensitization: Not classified.
Skin sensitization: Not classified. May cause defatting of the skin, but is neither an irritant nor a sensitizer.
Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not a L - Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. Not classified.
Overall Evaluation of Carcinogenicity: Not listed.
Reproductive toxicity: Contains no ingredient listed as toxic to reproduction
Specific target organ toxicity - single exposure: Not classified.
Specific target organ toxicity - repeated exposure: Not classified.
Aspiration hazard: May be fatal if swallowed and enters airways.
Chronic effects: Prolonged inhalation may be harmful.
Further information: Risk of chemical pneumonia after aspiration.

LVP Aliphatic Hydrocarbon 64742-47-8

ACUTE STUDIES

EYE EFFECTS Slight irritation on contact.
SKIN EFFECTS May cause irritation or dermatitis with prolonged and repeated contact.
ACUTE ORAL EFFECTS Tests on similar materials indicate an order of acute oral toxicity.
ACUTE INHALATION EFFECTS Acute toxicity expected on inhalation.
LD50 Dermal Rabbit >2000 mg/kg - LD50 Oral Rat >5000 mg/kg --
Irritation/Corrosion Not available.
Sensitization Not available.
Mutagenicity Not available
Carcinogenicity Not available.
Mutagenicity Not available.
Teratogenicity Not available.

Reproductive toxicity Not available.
Specific target organ toxicity (single exposure) Not available
Specific target organ toxicity (repeated exposure) Not available.
Aspiration hazard: Distillates (petroleum), hydrotreated light ASPIRATION HAZARD - Category 1
This product is not listed as carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA. Therefore, if the precautions outlined in this bulletin are followed to minimize repeated or prolonged skin contact which could cause irritation, these oils should pose no carcinogenic hazard to humans. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Nevertheless, good industrial hygienic practices are recommended.

Diisobutyl Ketone 108-83-8

Oral LD-50: (Rat): > 3,200 mg/kg (highest dose tested)
Oral LD-50: (Mouse): > 3,200 mg/kg (highest dose tested)
Dermal LD-50: (Guinea Pig): >20 ml/kg (highest dose tested)
Dermal LD-50: (Rat): > 2,000 mg/kg
LC50 (Rat, 6 h): 1979 ppm no deaths from exposure to nearly saturated vapor
Skin corrosion/irritation: (Rabbit, 72 h): none
Serious eye damage/eye irritation: unwashed eyes (Rabbit): Slight
Respiratory or skin sensitization: Skin Sensitization: (Guinea Pig) - non-sensitizing
Mutagenicity: In vitro- No data available. In vivo- No data available
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
Specific target organ toxicity - single exposure: No data available.
Specific target organ toxicity - repeated exposure: No data available.
Aspiration hazard: May be harmful if swallowed and enters airways.

Proprietary Ingredient

Acute Toxicity	Hazard	LC50/LD50 Data
Inhalation	Unlikely to be harmful	>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful	> 2 g/kg (estimated)
Oral	Unlikely to be harmful	> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard.
Skin Corrosion/Irritation: Not expected to be irritating. Repeated exposure may cause skin dryness or cracking.
Serious Eye Damage/Irritation: Not expected to be irritating.
Skin Sensitization: No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).
Respiratory Sensitization: No information available.
Specific Target Organ Toxicity (Single Exposure): No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).
Specific Target Organ Toxicity (Repeated Exposure): No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).
Carcinogenicity: No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).
Germ Cell Mutagenicity: No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
Reproductive Toxicity: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

12. Ecological Information

No Data Available.

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information

Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IATA)
Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950

Vessel
Aerosol (Limited Quantity), Class 2.1, UN No 1950

15. Regulatory Information

Environmental Regulations

SARA 311:

Acute health: Yes

Fire: Yes

Reactive: No

Chronic health: No

Sudden release of pressure: No

CERCLA 103 Reportable Quantity: This product has a Reportable Quantity (RQ) of 166,666 lbs. (based on the RQ for Isobutyl Alcohol of 5,000 lbs present at 3%) maximum. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA 313: Title III of the 1986 Super fund Amendments and Reauthorization Act (SARA) and 40 CFR PART 372.: None

All the chemicals used in this product are TSCA listed.
Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

Level 3 Aerosol

HMIS: Health: 2 Flammability: 3 Reactivity: 0

RATING: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT

Note:

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an SDS does not indicate that the possessor of the SDS was a purchaser or user of the subject product.