



# Safety Data Sheet

Date Prepared : 09/08/2017  
MSDS No : STARFIRE-1220

## STARFIRE TEC-A-NUT PENETRATING OIL

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** STARFIRE TEC-A-NUT PENETRATING OIL  
**GENERAL USE:** PENETRANT, RUST PENETRANT, LUBRICANT  
**PRODUCT DESCRIPTION:** Penetrant, Lubricant  
**PRODUCT CODE:** 1220  
**GENERIC NAME:** Aerosol Penetrant

#### MANUFACTURER

COOLANTS PLUS, INC  
2570 Van Hook Ave  
Hamilton, OH 45015  
**Contact:** 1-888-258-8723

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**Poison Control Center (Medical) :** (877) 800-5553  
**CANUTEC (Canadian Transportation) :** (613) 996-6666  
**CHEMTREC (US Transportation) :** (800) 424-9300

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

##### Health:

Aspiration Toxicity, Category 1  
Target Organ Toxicity (Single exposure), Category 1  
Target Organ Toxicity (Repeated exposure), Category 3

##### Physical:

Flammable Aerosols, Category 2

#### GHS LABEL



Flame



Exclamation  
mark



Health  
hazard

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H222: Extremely flammable aerosol.  
H229: Pressurized container: may burst if heated.  
H304: May be fatal if swallowed and enters airways.  
H336: May cause drowsiness or dizziness.

#### PRECAUTIONARY STATEMENT(S)

##### Prevention:

P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211: Do not spray on an open flame or other ignition source.  
P251: Do not pierce or burn, even after use.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

**Response:**

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P331: Do NOT induce vomiting.

P312: Call a POISON CENTER/doctor/...if you feel unwell.

**Storage:**

P405: Store locked up.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403: Store in a well-ventilated place.

**Disposal:**

P501: Dispose of contents/container to ...

**COMMENTS:** Full text of R-, H- and EUH- phrases: see section 16

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
PETROLEUM OILS MIXTURE - Any concentration shown as a range is to protect confidentiality or is due to batch variation.	> 65 - 75	Varies
Distillates, Petroleum, Hydrotreated Light	< 7 - 15	64742-47-8
Carbon Dioxide	~ 5 - 8	124-38-9
Proprietary Component	~ 0.5 - 2	Mixture

### 4. FIRST AID MEASURES

**EYES:** Rinse Immediately, flush eyes with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Also flush under the eyelids. If irritation persists. Consult a physician.

**SKIN:** Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.

**INGESTION:** NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**INHALATION:** Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** May be irritating.

**SKIN:** Contact may cause skin irritation.

**INHALATION:** EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.

**NOTES TO PHYSICIAN:** Treat symptomatically.

**COMMENTS:** If you feel unwell, seek medical advice (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** Aerosol

**EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical, or water fog. Do Not use water jet. Burning liquid may float on water

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of Carbon.

**OTHER CONSIDERATIONS:** Vapours may spread to sources of ignition and provoke flames to retrocede. Closed containers may rupture violently when exposed to fire or excessive heat.

**EXPLOSION HAZARDS:** Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

**FIRE FIGHTING PROCEDURES:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

**FIRE FIGHTING EQUIPMENT:** Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and formaldehyde.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Always employ the proper personal protective equipment. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas through the use of berms. Collect liquid with explosion proof pumps if possible. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Fluorocarbon alcohol resistant foams may be applied to spill to diminish vapor and fire hazard.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Depending on the size of the spill and the movement characteristics of the water into which it entered, consider use of booms, underflow or overflow dams. Diversion of the material is also an option. Mechanical skimmers, pads and other absorbent materials may be considered as well.

**LAND SPILL:** Construct temporary dikes of dirt, sand, or any appropriate readily available noncombustible (sawdust) material to prevent spreading of the material.

**AIR SPILL:** If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop the leak, and to flush spills away from exposures.

**GENERAL PROCEDURES:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**SPECIAL PROTECTIVE EQUIPMENT:** Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

**COMMENTS:** Remove all sources of ignition. Isolate the hazard area. Keep unnecessary and unprotected personnel from entering the area of the release.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** No special handling procedures are required. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing spray or mist.

**HANDLING:** Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Open and handle with care. Do not handle near heat, sparks, or flames. Avoid contact with incompatible agents. Use with adequate ventilation/personal protection. Do not enter storage area that is not adequately ventilated. Metal containers used in a transfer should be bonded and grounded. Use non-sparking tools. Observe good personal hygiene after handling this material.

**STORAGE:** Aerosol Storage Level: 3

Store in a well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. The floor of the storage room must be impermeable, non-oxidizing and with contention dikes to retain the product in case of leakage. Store in adequate storage tanks placed in containment basin to retain product in case of leakage.

**STORAGE TEMPERATURE:** Store in closed original container. Protect from direct sun light. Do not expose to temperatures exceeding 50 C/122 F.

**COMMENTS:** **KEEP OUT OF REACH OF CHILDREN**

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** If vapors, or mists are generated, provide local exhaust ventilation to prevent airborne exposure. All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94)

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material. Maintain eye wash fountain and quick-drench facilities in work area.

**SKIN:** To prevent any contact, wear impervious protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

**RESPIRATORY:** No special precautions are necessary under normal operating conditions.

If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit or maximum use concentration specified by the respirator supplier or regulatory agency. A full-face organic vapor respirator may be employed for use in atmospheres that contain up to 50 times the exposure limit. For emergencies or instances where the exposure levels are not known a positive- pressure, full-face piece, air supplied respirator should be employed.

**PROTECTIVE CLOTHING:** Long sleeved clothing should always be considered when handling chemical substances.

**WORK HYGIENIC PRACTICES:** Good personal hygiene practices should always be followed. Keep away from food, drink and animal feeding stuffs. When using, do not eat, drink or smoke. Hands and any other exposed area should be washed thoroughly with soap and water after contact. Regular laundering of contaminated clothing is essential to reduce indirect skin contact.

**OTHER USE PRECAUTIONS:** Keep away from sources of ignition.

**COMMENTS:** **KEEP OUT OF THE REACH OF CHILDREN.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Aerosolize Liquid

**ODOR:** Characterist, Mild Petroleum

**APPEARANCE:** Liquid

**COLOR:** Colorless to Amber Liquid.

**PHYSICAL STATE COMMENTS:** Aerosol

**FLASH POINT AND METHOD:** ~ -17°C

**BOILING POINT:** ~ (458°F)

**SOLUBILITY IN WATER:** Insoluble

**SPECIFIC GRAVITY:** 0.7 to .72 (Water = 1.00)

**(VOC):** < 25 % by wt.

**10. STABILITY AND REACTIVITY**

**REACTIVITY:** No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

**HAZARDOUS POLYMERIZATION:** Material will not polymerize.

**STABILITY:** This product is stable under storage at normal ambient temperatures.

**CONDITIONS TO AVOID:** Heat, Flames and Sparks. Avoid contact with oxidizers, strong acids and excessive heat. See also section 7.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of Carbon.

**INCOMPATIBLE MATERIALS:** Avoid Strong Oxidizing Agents

**11. TOXICOLOGICAL INFORMATION**

**SERIOUS EYE DAMAGE/IRRITATION:** Material is a defatting agent and may result in soreness, inflammation and possible dermatitis.

**CARCINOGENICITY**

**IARC:** Not Listed by IARC

**NTP:** Not Listed by NTP

**OSHA:** Not Listed by OSHA

**STOT-SINGLE EXPOSURE:** Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slow reaction time, slurred speech, giddiness, and unconsciousness.

**STOT-REPEATED EXPOSURE:** Severe defatting of the skin.

**COMMENTS:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Vapours may cause drowsiness and dizziness.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Do not allow to enter into surface water or drains.

**DISTRIBUTION:** Mobile in soils

**GENERAL COMMENTS:** Do not release into surface water.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Disposal must comply with federal, state, and local disposal or discharge laws.

**FOR LARGE SPILLS:** Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

**PRODUCT DISPOSAL:** Collect in appropriate containers. Dispose of waste at an appropriate waste disposal facility in accordance with current applicable laws and regulation, and product characteristics at time of disposal.

**EMPTY CONTAINER:** Do not re-use empty container. Empty container should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Limited Quantity

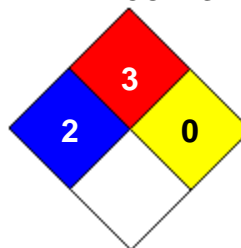
**VESSEL (IMO/IMDG)****SHIPPING NAME:** AEROSOLS, flammable**TECHNICAL NAME:** AEROSOLS, flammable**UN/NA NUMBER:** 1950**PRIMARY HAZARD CLASS/DIVISION:** 2.1**LIMITED QUANTITY:** YES**EmS:** F-D, S-U**PLACARDS:** Yes**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** Sudden Release of Pressure Hazard

Fire Hazard

Acute Health Hazard

**FIRE:** Yes **PRESSURE GENERATING:** Yes **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No**313 REPORTABLE INGREDIENTS:** None**TSCA (TOXIC SUBSTANCE CONTROL ACT)****TSCA REGULATORY:** All intentional ingredients are listed on the TSCA Inventory.**CALIFORNIA PROPOSITION 65:** This product does not contain listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.**16. OTHER INFORMATION****REASON FOR ISSUE:** GHS SDS Format**APPROVED BY:** Scott Margulis **TITLE:** Technical Director**PREPARED BY:** S. Margulis **Date Prepared:** 09/08/2017**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>3</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

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**ADDITIONAL MSDS INFORMATION:** Prepared by: Responder (ESP Consulting, LLC) 877-756-4666

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