SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: STARFIRE EURUS 320

ADVANCED TECHNOLOGY SYNTHETIC EXTREME PRESSURE GEAR OIL
MICROPITTING RESISTANT (ISO 320)

Product Use Description: Lubricant

Company:
Supplier
Coolants Plus, Inc.
2570 Van Hook Ave
Hamilton, OH
45015
United States of America

Telephone: 888-258-8723

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Recommended use of the chemical and restrictions on use

Recommended use: Lubricant

Restrictions on use: None known.

SECTION 2. HAZARDS IDENTIFICATION

Form: oily
Colour: amber to clear
Odour: pungent

GHS Classification
Skin sensitisation: Category 1

GHS Label element
Signal word: Warning
Hazard pictograms: ![Warning Symbol]

Hazard statements: H317 May cause an allergic skin reaction.

Other hazards: None

Precautionary statements:

**Prevention:**
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.

**Response:**
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.

**Disposal:**
- P501 Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

**IARC**
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amines, C12-14-tert-alkyl</td>
<td>68955-53-3</td>
<td>&gt;= 0.1 - &lt; 1 %</td>
</tr>
</tbody>
</table>

**SECTION 4. FIRST AID MEASURES**

If inhaled:
- If inhaled
  - Move to fresh air.
  - If not breathing, give artificial respiration.
  - If breathing is difficult, give oxygen.
In case of bluish discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible. Get medical attention.

In case of skin contact:
- Wash off with soap and water.
- Remove contaminated clothing and shoes.
- Wash contaminated clothing before re-use.
- Get medical attention if irritation develops and persists.

In case of eye contact:
- Flush with plenty of water.
- If eye irritation persists, consult a specialist.

If swallowed:
- DO NOT induce vomiting.
- Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed:
- Sensitising effects

Notes to physician:
- For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media: Carbon dioxide (CO2)
  - Dry powder
  - Alcohol-resistant foam
  - Water mist

- Unsuitable extinguishing media: High volume water jet

- Specific hazards during firefighting: Burning produces noxious and toxic fumes.

- Specific extinguishing methods: In the event of fire, cool tanks with water spray.

- Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Full protective flameproof clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures: Use personal protective equipment.

- Environmental precautions: Do not contaminate water.
Do not flush into surface water or sanitary sewer system. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up:
- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
- Keep container closed when not in use.
- Do not use pressure to empty drums.
- Ensure all equipment is electrically grounded before beginning transfer operations.

Conditions for safe storage:
- Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid:
- Strong acids and strong bases, Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures:
- Use with adequate ventilation.
- Local ventilation is needed in the presence of airborne mists.
- Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Respiratory protection:
- not required under normal use
- Wear a NIOSH/MSHA approved organic cartridge respirator in high temperature applications if misting or vapor occurs, or there is potential for airborne exposures to exceed established threshold values.

Hand protection Remarks:
- Neoprene gloves

Eye protection:
- Safety glasses with side-shields
- Tightly fitting safety goggles

Skin and body protection:
- impervious clothing

Hygiene measures:
- Avoid contact with skin, eyes and clothing.
- Provide adequate ventilation.
- Do not breathe dust or spray mist.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : oily
Color : amber to clear
Odor : pungent
pH : Not applicable
Pour point : -33 °C
   Method: No information available.
Boiling point/boiling range : No data available
Flash point : >= 249 °C
   Method: Cleveland open cup
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative density : 0.899 (15 °C)
Density : 0.852 - 0.883 g/cm³ (15 °C)
   Method: No information available.
Solubility(ies)
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : No data available
Viscosity
Viscosity, dynamic : 288.0 - 352.0 mPa.s (40 °C)
   Method: ASTM D 445
Viscosity, kinematic : 33.5 mm²/s (100 °C)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : No decomposition if stored and applied as directed.
Possibility of hazardous reactions : Hazardous polymerisation does not occur.
   Stable under normal conditions.
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Conditions to avoid: Contamination
Extremes of temperature and direct sunlight.

Incompatible materials: Strong acids and strong bases
Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity (Product): Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Method: Calculation method

Acute dermal toxicity (Product): Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Sensitisation (Product): Remarks: May cause sensitisation by skin contact.

Further information (Product): The product itself has not been tested.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Elimination information (persistence and degradability)

Bioaccumulation (Product): Remarks:
No data available

Mobility (Product): Remarks:
No data available

Biodegradability (Product): Result: No data available

Further information on ecology
SAFETY DATA SHEET

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Additional ecological information (Product) : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Dispose of in accordance with local regulations.
Contaminated packaging : Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

ADR
Not dangerous goods

RID
Not dangerous goods

MERCOSUR
Not dangerous goods

DOT
Not dangerous goods

IATA
Not dangerous goods

IMDG
Not dangerous goods

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant
           Not relevant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethyl acrylate</td>
<td>140-88-5</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

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*: Calculated RQ exceeds reasonably attainable upper limit.

SARA304 Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards  :  Acute Health Hazard

SARA 302  :  No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313  :  This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

California Prop 65  
WARNING! This product contains a chemical known to the State of California to cause cancer.

ethyl acrylate  140-88-5

The components of this product are reported in the following inventories:

US.TSCA  On TSCA Inventory
DSL  All components of this product are on the Canadian DSL.
AICS  On the inventory, or in compliance with the inventory
NZIoC  On the inventory, or in compliance with the inventory
ENCS  Not in compliance with the inventory
KECI  On the inventory, or in compliance with the inventory
PICCS  On the inventory, or in compliance with the inventory
IECSC  On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

<table>
<thead>
<tr>
<th>Latin America:</th>
<th>Brazil</th>
<th>+55 113 711 9144</th>
</tr>
</thead>
<tbody>
<tr>
<td>All other countries</td>
<td>+44 (0) 1235 239 670</td>
<td></td>
</tr>
<tr>
<td>Mexico:</td>
<td>+52 555 004 8763</td>
<td></td>
</tr>
</tbody>
</table>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.