

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

Print Date: 04/21/2016

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**

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

Print Date: 04/21/2016

Hazard pictograms

:



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

Chemical Name	CAS-No.	Concentration (%)
Amines, C12-14-tert-alkyl	68955-53-3	>= 0.1 - < 1 %

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.

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

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- In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.
Get medical attention.
- In case of skin contact : 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 : In case of eye contact
Flush with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : 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.

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

Print Date: 04/21/2016

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.

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

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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/cm ³ (15 °C) Method: No information available.
<u>Solubility(ies)</u>	
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 mm ² /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.

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

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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 (NO_x), 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

STARFIRE EURUS 320

Version: 1.1

Revision Date: 12/15/2014

Print Date: 04/21/2016

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
ethyl acrylate	140-88-5	1000	*

SAFETY DATA SHEET

STARFIRE EURUS 320

Version: 1.1

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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

<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.