



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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GEARMASTER ECO 320
A01-02180

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of product

GEARMASTER ECO 320

US Distributor

Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 255-3924 24 hrs Emergency

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Lubricant

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

FUCHS LUBRITECH GMBH
Werner-Heisenberg-Straße 1, D-67661 Kaiserslautern/Germany
Phone +49 (0) 6301 3206 - 0, Fax +49 (0) 6301 3206 - 940
E-Mail reach@fuchs-lubritech.de
Internet www.fuchs-lubritech.com

Advice

Product Safety Management
Phone +49 (0) 6301 3206 - 0
Fax +49 (0) 6301 3206 - 940
E-mail (competent person):
reach@fuchs-lubritech.de

1.4. Emergency telephone number

Emergency advice

+49 (0)171 / 4632154
Phone 06301/3206-808
This number is only available at office times.

! SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

! Additional hints

The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional information

! Remark

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008

2.3. Other hazards

Information pertaining to special dangers for human and environment

none at appropriate handling and storage

SECTION 3: Composition/ information on ingredients

3.2. Mixtures

Description

Preparation of readily biodegradable ester components with additives

Additional advice

We do not know of adverse reactions at storage and handling of the product in accordance with the prescribed procedures.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately, don't leave to dry.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

(may be relevant for vapours of superheated product)

In case of skin contact

In case of contact with skin wash off immediately with soap and water.
Don't use organic solvents
Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

In case of ingestion

Call doctor in case of indisposition
Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

No symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam
Dry powder
Carbon dioxide
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Fire gas of organic material has to be classed invariably as respiratory poison.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In case of rescue and maintenance activities in storage containers use environment-independent breathing apparatus because of risk of suffocation by edging out of air oxygen
Wear suitable personal protective equipment for fire extinguishing measures.

Additional information

Cool endangered containers with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin and eyes
High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Collect contaminated water / firefighting water separately.
Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
After taking up the material dispose according to regulation.

Additional Information

Informations for disposal see chapter 13.
No dangerous substances are released

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust.

Avoid formation of aerosols.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Hygiene measures

Cloths contaminated with product should not be kept in trouser pockets.

Follow general rules of industrial hygiene for safe handling of chemical products

At work do not eat, drink and smoke.

Remove soaked clothing immediately.

Wash hands before breaks and after work.

Use barrier skin cream.

Advice on protection against fire and explosion

Don't heat up to temperatures at close range to flash point

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Prevent penetration into the ground.

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Keep container tightly closed, store at cool and aired place, open and handle carefully.

Storage temperature between 10 °C to 30 °C (=50 °F to 86 °F).

Recommended storage temperature: room temperature.

Information on storage stability

see Product information

Storage group 10

Fire class B

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice

This product as such does not contain any relevant ingredients with to be observed limited values

As basis for this information served the valid references.

8.2. Exposure controls

Respiratory protection

not necessary in general

Hand protection

Protective gloves

Eye protection

safety goggles

Other protection measures

Usual working clothes for chemical industries

Appropriate engineering controls

not necessary in general



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

light yellow

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value					not applicable
boiling point					not applicable
pourpoint					not determined
Flash point	> 220 °C			ISO 2592	
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature					unknown
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	0,943 g/cm3	15 °C		DIN 51757	
Vapour density	not determined				
Solubility in water					not or poorly miscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity kinematic	320 mm2/s	40 °C		DIN 51562	
Oxidising properties	no				
Explosive properties	no				
9.2. Other information	No information available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.



10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

Materials to avoid

none at appropriate handling and storage

10.6. Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remark

No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral				not determined
Irritability skin	no irritating effects known			
Irritability eye	no irritating effects known			
Skin sensitization	No sensitizing effect known			

Experiences made from practice

no harmful effects at appropriate handling and determined usage

Additional information

No toxicological data available.

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish				not determined

12.2. Persistence and degradability

Biological

degradability

The product is readily biodegradable to OECD criteria.

12.3. Bioaccumulative potential

preparation is water insoluble and does not formate emulsion

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

Behaviour in sewage plant

Product gets duly not into waste water before it is not treated according to the local regulations.

Product swims on (waste-) water surface

General regulation

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.



SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

13 02 07*

Name of waste

readily biodegradable engine, gear and lubricating oils

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Standardized regulations for residual waste disposal within the EG member states do not exist.

German statutes are prescribed in the law of "recycling and waste" (KrW/AbfG)

used absorbents of chapter 6: EAK 07 06 10

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Dispose one-trip container according to local authority prescriptions

EAK 15 01 10: packing material with harmful contamination

General information

Ultimately responsible for correct classification is the waste producer, as the EWC names different codes for different origins of same waste

Therefore the a.m. recommendation has to be checked in case of need.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-
14.6. Special precautions for user			
no special dangers known			
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
not applicable			
Land and inland navigation transport ADR/RID			
No dangerous goods as defined by these transport regulations.			
Marine transport IMDG			
No dangerous goods as defined by these transport regulations.			
Air transport ICAO/IATA-DGR			
No dangerous goods as defined by these transport regulations.			
Transport/further information			
No hazardous goods as defined by prescriptions			

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

VOC content 0 %

National regulations

Water hazard class 1 Mixture-WGK according to VwVwS (GER)

15.2. Chemical Safety Assessment

Chemical Safety Assessments for mixtures is not required.



SECTION 16: Other information

Training advice

Use information in this MSDS

Recommended uses and restrictions

usage only according to instructions for use and observance of warning notes

National and local regulations concerning chemicals shall be observed.

Further information

The information given in this MSDS is based on the present state of knowledge and is intended to describe our products from the point of view of safety requirements only.

Substantial changes to the former version are marked by "!" on the left margin of the paper.

All the raw materials in this product are listed in TSCA.

Refer to product information paper.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.4

Sources of key data used

Material Safety Data Sheets of raw materials