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Safety Data Sheet acc. to OSHA HCS

Printing date 10/31/2022 Version 13 Reviewed on 10/31/2022

1 Identification

· Product identifier

· Trade name: Lubricating Oil ISO VG 320

· Article number: 54269084, 54269085

· Application of the substance / the mixture Lubricating oil

· Details of the supplier of the safety data sheet

· Supplier:

Alfa Laval Technologies AB

SE-221 00 Lund

Sweden

+46 46 36 65 00

info.se@alfalaval.com

USA supplier:

Distribution Centre Americas AMDC

200 South Park Boulevard Greenwood, Indiana 46143 Tel switchboard: +13178022266

Information department:

For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on www.alfalaval.com or in safety data sheet under section 16: Other Information

Emergency telephone number:

Call CHEMTREC

+1 703-741-5970 / 1-800-424-9300 CCN 844

2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- · Other hazards

Prolonged and/or repeated skin contact may cause irritation.

Eye contact can cause minor irritation.

- · Results of PBT and vPvB assessment
- · PBT: The product is not, nor contains, a substance that is PBT
- · **vPvB:** The product is not, nor contains a substance that is, vPvB.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Synthetic base oil with additives.
- Dangerous components:

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

0.25-<1%



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4 First-aid measures

- · Description of first aid measures
- · General information: Call a poison center/doctor if you feel unwell.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Wash with water and soap.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water and consult a doctor.

After swallowing:

Wash the mouth with water.

Do NOT induce vomiting.

Contact a doctor

· Most important symptoms and effects, both acute and delayed

High pressure injection under skin: local necrosis.

Prolonged and/or repeated skin contact may cause irritation.

Eye contact can cause minor irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Carbon dioxide

Water spray

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: Not applicable.
- Special hazards arising from the substance or mixture

No further relevant information available.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered receptacles with water spray.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Do not breathe vapour.

Environmental precautions:

Avoid release to the environment.

Do not allow product to reach sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling

Ensure adequate ventilation

See Section 8 for information on personal protection equipment.

When using do not eat, drink or smoke.

- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Keep away from heat and direct sunlight.

Store in a dry place.

Keep container tightly closed.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:
- · Recommended storage temperature: 5 35 °C (41 95 °F)
- · Specific end use(s)

Lubricating oil

Professional use only.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: Use only in well-ventilated areas.
- Control parameters

· Components with	12	414		. 41
· Componente With	IIMIT VAIIIDE	tnat radilira	monitoring at	THE WARKHISCE

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

REL Long-term value: 10 mg/m³
TLV Long-term value: 2* mg/m³

*as inhalable fraction and vapor, A4

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- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:

Do not carry product impregnated cleaning cloths in trouser pockets.

Take off contaminated clothing.

Wash hands before breaks and at the end of work.

Breathing equipment:

Not necessary if room is well-ventilated.

In case of insufficient ventilation, wear suitable respiratory equipment.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- · Eye protection: Wear eye/face protection.
- · Body protection: Wear protective clothing.
- Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.

9 Physical and chemical properties

Information on basic physical and c	chemical properties
· Appearance:	
Form:	Liquid
Color:	Colorless
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
· Flash point:	250 °C (482 °F) (ISO 2592)
· Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower:	Not determined.
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Upper: Oxidizing properties	Not determined. Not applicable.
· Vapor pressure:	< 0.01 @20 °C kPa
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	0.85 g/cm³ (7.09325 lbs/gal) (DIN EN ISO 12185) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	ater): Not determined.
· Viscosity: Dynamic: Kinematic at 40 °C (104 °F):	Not determined. 320 mm²/s
· Solvent content: VOC content:	0.00 %
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity Material is stable under normal conditions.
- · Chemical stability

Stable under normal temperature conditions and under recommended usage and storage.

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid High temperature
- Incompatible materials: Reacts with acids, alkalis and oxidizing agents.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	· LD/LC50 values that are relevant for classification:		
CAS: 128	CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
Oral	LD50	>2,930 mg/kg (Rat) (OECD 401)	
Dermal	LD50	>5,000 mg/kg (Rat) (OECD 402)	
Oleic acid	Oleic acid derivative		
Oral	LD50	>5,000 mg/kg (Rat)	
Inhalative	LC50 (4 h)	1.37 mg/L (Rat)	

- · Primary irritant effect:
- on the skin:

Prolonged and / or repeated skin contact may cause irritation.

No irritant effect.

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on the eye:

Contact with eyes may result in mild irritation. Irritating effect.

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)				
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol	3			
NTD (Netional Taxicalamy Bramman)				

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol	
EC50 (48 h)	0.61 mg/L (Daphnia) (OECD 202)
NOEC - No observed effect concentration	>0.39 mg/l (Daphnia)
Oleic acid derivative	
LC50 (96 h)	6.8 mg/L (Fish)
EC50 (48 h)	0.43 mg/L (Daphnia)
EC50 (72 h)	6.3 mg/L (Algae)
NOEC - No observed effect concentration	0.91 mg/l (Algae)
Persistence and degradability	

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Biodegradability 30 % (OECD 302C)

- · Behavior in environmental systems:
- · Bioaccumulative potential Contains components with the potential to bioaccumulate.
- **Mobility in soil**

The product is not expected to be mobile in soil.

Low solubility, product floats on water. Absorbs to soil particles.

- · Results of PBT and vPvB assessment
- · PBT: The product is not, nor contains, a substance that is PBT
- · **vPvB:** The product is not, nor contains a substance that is, vPvB.
- · Other adverse effects

Spills may form a film on the water surface. This film may cause physical damage to aquatic organisms and reduce oxygen transfer.



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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Hand over to hazardous waste disposers.

Delivery of waste oil to offically authorized collectors only.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation:

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	k II of Not applicable.	
· UN "Model Regulation":	Void	

15 Regulatory information

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

EU Regulation (EC) no.1907/2006 (REACH)

Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

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· Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for futher questions. www.alfalaval.com

· Department issuing SDS: Alfa Laval Sustainability Environment

Contact:

Please contact your local Alfa Laval Sales Company for futher questions.

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Date of preparation / last revision 10/31/2022

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

* Data compared to the previous version altered.