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## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/31/2023

Version 16

Reviewed on 07/31/2023

## 1 Identification

#### · Product identifier

- · Trade name: Lubricating Oil ISO VG 220
- · Article number: 542690-80, 542690-81, 542690-83
- · 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 Contact in USA 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 Informaion

• 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
- · 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:** Mixture of the substances listed below with nonhazardous additions.

## · 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: Wash contaminated clothing before reuse.
- · 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.
- May cause aspiration when swallowing.
- Contact a doctor
- **Most important symptoms and effects, both acute and delayed** High pressure injection under skin: local necrosis.
- 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

Use fire fighting measures that suit the environment.

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

Formation of toxic gases is possible during heating or in case of fire. Carbon monoxide (CO)

- Hydrocarbons
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

- Wear fully protective suit.
- Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
   Particular danger of slipping on leaked/spilled product.
   Do not breathe vapour.
   Environmental measurements
- Environmental precautions: Avoid release to the environment. Do not allow to enter sewers/ surface or ground water.

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Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Send for recovery or disposal in suitable receptacles.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

• 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
- Avoid the formation of oil haze.

The usual precautionary measures for handling chemicals should be followed.

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:** Store in a well-ventilated place. Keep container tightly closed. Store in a dry place.
- **Information about storage in one common storage facility:** Store away from oxidizing agents. Store away from reducing agents.
- Further information about storage conditions: Protect from humidity and water.
- · Specific end use(s)
- Lubricating oil

Professional use only.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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#### Trade name: Lubricating Oil ISO VG 220

Melting point/Melting range: Boiling point/Boiling range:

· Flammability (solid, gaseous):

· Flash point:

(Contd. of page 3) · Control parameters · Components with limit values that require monitoring at the workplace: CAS: 128-37-0 2,6-di-tert-butyl-p-cresol REL Long-term value: 10 mg/m<sup>3</sup> TLV Long-term value: 2\* mg/m<sup>3</sup> \*as inhalable fraction and vapor, A4 • Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: General protective and hygienic measures: Use only in well-ventilated areas. Wash hands before breaks and at the end of work. · Breathing equipment: Not necessary if room is well-ventilated. 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 Polymere laminate 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: Working clothes 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 chemical properties · General Information Appearance: Clear · Form: Liquid · Color: Colorless · Odor: Characteristic · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition

Undetermined.

Undetermined. 250 °C (482 °F)

Not applicable.



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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.	
Upper:	Not determined.	
Oxidizing properties	Not applicable.	
Vapor pressure:	< 0.01 kPa	
Density at 20 °C (68 °F):	0.86 g/cm³ (7.1767 lbs/gal) (DIN EN ISO 12185)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	iter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 40 °C (104 °F):	220 mm²/s	
Solvent content:		
VOC content:	0.00 %	
Other information	No further relevant information available.	

## **10 Stability and reactivity**

· Reactivity The material is stable under recommended storage and handling conditions.

· Chemical stability

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

Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

Formation of toxic gases is possible during heating or in case of fire.

- 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:
- Poisonous gases/vapors
- No further information, refer to section 5.

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11 Toxicolo	ogical info	ormation		
Informatio	on on toxic	ological effects		
· Acute toxi		0		
· LD/LC50 v	values that	are relevant for cla	ssification:	
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	derivative			
Oral	LD50	>5,000 mg/kg (Rat)		
Inhalative	LC50 (4 h)	1.37 mg/L (Rat)		
· Primary ir		t:		
on the ski		a stand sluins a suite star		
No irritant		eated skin contact r	nay cause irritation.	
· on the eye				
		/ result in mild irritati	on.	
Irritating ef	fect.			
		sitizing effects know	/n.	
· Additional	l toxicologi	cal information:		
· Carcinoge	enic catego	ries		
		Agency for Researc	h on Cancer)	
CAS: 128-3	37-0 2,6-di	-tert-butyl-p-cresol	3	
· NTP (Natio	onal Toxico	ology Program)		
None of the	e ingredient	s is listed.		
· OSHA-Ca	(Occupatio	onal Safety & Health	h Administration)	
None of the	e ingredient	s is listed.		
· Germ cell	mutagenic	ity Based on availat	ble data, the classification criteria are not met.	
12 Ecologic	cal inform	ation		
Toxicity	,			
• Aquatic to		anisme may cause	long-term adverse effects in the aquatic environment.	
	-	tert-butyl-p-cresol		
EC50 (48 h	•	affect concentrations	0.61 mg/L (Daphnia) (OECD 202)	
		enect concentration	>0.39 mg/l (Daphnia)	
	derivative			
LC50 (96 h			6.8 mg/L (Fish)	
EC50 (48 h			0.43 mg/L (Daphnia)	
EC50 (72 ł	n)		6.3 mg/L (Algae)	

• **Persistence and degradability** The product is not easily, but potentially biodegradable.

NOEC - No observed effect concentration 0.91 mg/l (Algae)

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#### 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 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.

#### **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

Must be specially treated adhering to official regulations.

Hand over to hazardous waste disposers.

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.

4 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
<ul> <li>UN proper shipping name</li> <li>DOT, ADR, ADN, IMDG, IATA</li> </ul>	Void	
· Transport hazard class(es)		
<sup>·</sup> DOT, ADR, ADN, IMDG, IATA <sup>·</sup> Class	Void	
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Void	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	t <b>II of</b> Not applicable.	
· UN "Model Regulation":	Void	

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<ul> <li>Safety, health and environmental regulations/legislation specific mixture</li> </ul>	c for the substance
EU Regulation (EC) no.1907/2006 (REACH)	
Sara	
<ul> <li>Section 355 (extremely hazardous substances):</li> </ul>	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol	ACTI
· 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	ŀ
· 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 be	een 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

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(Contd. of page 8) 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. Argentina: alfa.consulta@alfalaval.com Australia: australia.info@alfalaval.com Austria: info.mideurope@alfalaval.com Belgium: benelux.info@alfalaval.com Bolivia: alfa.consulta@alfalaval.com Brazil: alfalaval.br@alfalaval.com Bulgaria: bulgaria.info@alfalaval.com Canada: alfacan.info@alfalaval.com Chile: chile.informacion@alfalaval.com China: china.info@alfalaval.com Colombia: info.colombia@alfalaval.com Croatia: hrvatska.info@alfalaval.com Czech Republic: czechrepublic.info@alfalaval.com Denmark: info.nordic.dk@alfalaval.com Egypt: alme.marketing@alfalaval.com Estonia: estonia.info@alfalaval.com Finland: info.fi@alfalaval.com France: environnement@alfalaval.com Germany: info.mideurope@alfalaval.com Greece: greece.info@alfalaval.com Hungary: info.hu@alfalaval.com India: india.info@alfalaval.com Indonesia: alfalindo@alfalaval.com Israel: israel.info@alfalaval.com Italy: alfalaval.italia@alfalaval.com Japan: hp.alfajp@alfalaval.com Latvia: latvia.info@alfalaval.com Lithuania: lithuania.info@alfalaval.com Malaysia: malaysia.info@alfalaval.com Mexico: mexico.info@alfalaval.com The Netherlands: benelux.info@alfalaval.com New Zealand: newzealand.info@alfalaval.com Norway: info.no@alfalaval.com Peru: ventas.peru@alfalaval.com Philippines: philippines.info@alfalaval.com Poland: poland.info@alfalaval.com Portugal: portugal.info@alfalaval.com Qatar: alme.marketing@alfalaval.com Romania: romania.info@alfalaval.com Russia: moscow.response@alfalaval.com Singapore: al.singapore@alfalaval.com Slovak Republic: slovakia.info@alfalaval.com

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(Contd. of page 9) Slovenia: slovenija.info@alfalaval.com South Africa: info.sa@alfalaval.com Spain: info.spain@alfalaval.com Sweden: info.se@alfalaval.com Switzerland: info.mideurope@alfalaval.com Taiwan: taiwan.info@alfalaval.com Thailand: thailand.info@alfalaval.com Turkey: turkey@alfalaval.com Ukraine: ukraine.info@alfalaval.com United Arab Emirates: alme.marketing@alfalaval.com United Kingdom: general.uk@alfalaval.com United States: customerservice.usa@alfalaval.com Venezuela: venezuela.info@alfalaval.com Vietnam: vietnam.info@alfalaval.com Date of preparation / last revision 07/31/2023 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.