BARDAHL		MAROIL S.F	R.L.	Revision nr. 8
•				Dated 13/06/2023
			т	Printed on 13/06/2023
			1	Page n. 1/15
				Replaced revision:7 (Printed on: 01/10/2021)
	ing to Annex II to RI		20/878 and to Annex II to UK R	
SECTION 1. Identification	n of the subst	ance/mixture and	of the company/under	rtaking
1.1. Product identifier				
Code: Product name		/I 230 XXT KART		
Product name	r			
1.2. Relevant identified uses of the Intended use Lubri	e substance or mix icating oil for 2-str		jainst	
1.3. Details of the supplier of the s	afety data sheet			
Name		AROIL S.R.L.		
Full address District and Country		OC. PONTE ALLA CILIE		
District and Country		TALIA		
		Fel. 0583/28731 Fax 0583/286542		
e-mail address of the competent pers	son			
responsible for the Safety Data Shee	et r	nsds@bardahl.it		
<b>1.4. Emergency telephone number</b> For urgent inquiries refer to		Centro Antiveleni di Pavia Centro Antiveleni di Milan Centro Antiveleni di Berga Centro Antiveleni di Firen Centro Antiveleni di Roma Centro Antiveleni di Roma	cipali Centri Antiveleni italiani o 0382 24444 (CAV IRCCS Fon o 02 66101029 (CAV Ospedal amo 800 883300 (CAV Ospeda ze 055 7947819 (CAV Ospeda a 06 3054343 (CAV Policlinico a 06 49978000 (CAV Policlinici li 081 7472870 (CAV Ospedale	dazione Maugeri - Pavia) e Niguarda Ca` Granda - Milano) Ili Riuniti - Bergamo) le Careggi - Firenze) Gemelli - Roma) o Umberto I - Roma)
SECTION 2. Hazards ider	ntification			
2.1. Classification of the substance	or mixture			
The product is classified as hazardou supplements). The product thus require Any additional information concerning	es a safety datashe	et that complies with the pr	ovisions of (EU) Regulation 202	20/878.
Hazard classification and indication: Hazardous to the aquatic environment category 3	nt, chronic toxicity,	H412	Harmful to aquatic life with	long lasting effects.

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2.2. Label elements			
Hazard labelling pursuant to I	EC Regulation 1272/2008 (C	LP) and subsequent amendments and supp	plements.
Hazard pictograms:	-		
Signal words:	-		
Hazard statements:			
H412	Harmful to aquatic life with lo	ong lasting effects.	
Precautionary statements:			
P501	Dispose of contents / contair	her in accordance with national regulations.	
P273	Avoid release to the environr	ment.	
	Keep out of reach of children	have product container or label at hand. I.	
2.3. Other hazards			
SECTION 3. Compo	osition/information	on ingredients	
Contains:			
Identification	x = Conc. %	Classification (EC) 1979/2008 (CLD)	
	x = Conc. %	Classification (EC) 1272/2008 (CLP)	
Phenol, polyisobutylene derivatives			
INDEX	$3,5 \le x < 4$	Aquatic Chronic 3 H412	
EC			
CAS -			
REACH Reg. Polimero			
Mineral oil			
INDEX	2,5 ≤ x < 3	Asp. Tox. 1 H304	
EC			
CAS -			
REACH Reg. Miscela			
distillates (petroleum), he	2)///		
paraffinic + hydrotreating INDEX 649-467-00-8	0,1 ≤ x < 0,15	Asp. Tox. 1 H304	
EC 265-157-1			
CAS 64742-54-7			
REACH Reg. 01-2119484	627-25		
-			

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Phenol, dodecyl-, branched INDEX - EC 310-154-3 CAS 121158-58-5 REACH Reg. 01-2119513207-49	0 ≤ x < 0,025	Repr. 1B H360F, Skin Corr. 1C H314, Eye Dam. 1 H318 H400 M=10, Aquatic Chronic 1 H410 M=10	3, Aquatic Acute 1
4-(1,1,3,3-tetramethylbutyl)phenol INDEX 604-075-00-6 EC 205-426-2 CAS 140-66-9	0 ≤ x < 0,025	Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315 H400 M=10, Aquatic Chronic 1 H410 M=10 STA Dermal: 1100 mg/kg	5, Aquatic Acute 1

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Mineral oil

The mineral oil contained can be described by one or more of the following: EC No. 265-157-1, Registration No. 01-2119484627-25, Distillates (petroleum), hydrotreated heavy paraffinic; EC No. 265-169-7, Registration No. 01-2119471299-27, Distillates (petroleum), solvent-dewaxed heavy paraffinic, EC No. 265-158-7, Registration No. 01-2119487077-29, Distillates (petroleum), hydrotreated light paraffinic; EC No. 265-159-2, Registration No. 01-2119480132-48, Distillates (petroleum), solvent-dewaxed light paraffinic.

## **SECTION 4. First aid measures**

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

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#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

### **SECTION 8. Exposure controls/personal protection**

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							Rep	placed revision:7 (Prin	ted on: 01/10/20
8.1. Control	I parameters								
Regulatory Re	eferences:								
ITA EU	ltalia OEL EU		Directive (EU) 20 Directive (EU) 20		e (EU) 2019/1831 re (EU) 2017/164	; Directive 2009/	161/EU; Direct	ctive (EU) 2019/98 ive 2006/15/EC; Di	
Mineral oil Threshold L	l imit Value								
Туре		Country	TWA/8h		STEL/15min		Remarks Observa		
			mg/m3	ppm	mg/m3	ppm	Observa		
VLEP		ITA	5						
Predicted no-e	effect concentratior	n - PNEC							
Normal value f	for the food chain (	(secondary poison	ing)		9,33	mg	g/kg		
			MEI						
Health - Der	rived no-effect I	Effects on				Effects on			
Route of expos			Acute systemic	Chronic local	Chronic systemic	Effects on workers Acute local	Acute systemic	Chronic local	Chronic systemic
		Effects on consumers		Chronic local		workers		Chronic local	
Route of expos Oral Inhalation		Effects on consumers		Chronic local	systemic	workers		Chronic local 5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L	petroleum), hea	Effects on consumers Acute local	Acute systemic		systemic 0,74 mg/kg	workers	systemic	5,58 mg/m3	systemic
Route of expose Oral Inhalation Skin distillates (p	petroleum), hea	Effects on consumers Acute local	Acute systemic		systemic	workers		5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L	petroleum), hea	Effects on consumers Acute local	Acute systemic hydrotreating TWA/8h mg/m3		systemic 0,74 mg/kg	workers	systemic	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L	petroleum), hea	Effects on consumers Acute local	Acute systemic hydrotreating TWA/8h	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min	workers Acute local	systemic	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod	petroleum), hea Limit Value decyl-, branchea	Effects on consumers Acute local	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min	workers Acute local	systemic	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e	petroleum), hea Limit Value	Effects on consumers Acute local	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3	workers Acute local	systemic Remarks Observa	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i	petroleum), hea Limit Value	Effects on consumers Acute local	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074	workers Acute local	systemic Remarks Observa	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value i	petroleum), hea Limit Value	Effects on consumers Acute local Acute local Acute local Country EU EU d n - PNEC	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007	workers Acute local	systemic Remarks Observa	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentratior in fresh water in marine water	Effects on consumers Acute local Acute local Acute local EV EV EU EU d n - PNEC	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074	workers Acute local ppm ppm	systemic Remarks Observa r/l r/l	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Predicted no-e Normal value i Normal value i Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentration in fresh water in marine water for fresh water sed	Effects on consumers Acute local Acute local Acute local Country EU EU d n - PNEC diment ediment	Acute systemic hydrotreating TWA/8h mg/m3	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226	workers Acute local	systemic Remarks Observa r/l r/l g/kg	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Predicted no-e Normal value i Normal value i Normal value f Normal value f	petroleum), hea Limit Value	Effects on consumers Acute local Acute local Acute local EU EU EU d n - PNEC d timent ediment hisms	Acute systemic hydrotreating TWA/8h mg/m3 5	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027	workers Acute local ppm ppm µg µg µg mg mg	systemic Remarks Observa r/l r/l g/kg	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value f Normal value f Normal value f	petroleum), hea Limit Value decyl-, branchea effect concentration in fresh water in marine water for fresh water sed for marine water sed of STP microorgan	Effects on consumers Acute local Acute loc	Acute systemic hydrotreating TWA/8h mg/m3 5	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027 100	workers Acute local	systemic Remarks Observa r/l r/l g/kg g/l	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value f Normal value f Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentration in fresh water in marine water for fresh water sed for marine water sed of STP microorgan for the food chain (	Effects on consumers Acute local Acute local Acute local Country EU EU d d n - PNEC d d d ediment hisms (secondary poison ompartment	Acute systemic hydrotreating TWA/8h mg/m3 5	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027 100 4	workers Acute local	systemic Remarks Observa r/l r/l g/kg g/l g/kg	5,58 mg/m3	systemic 2,73 mg/m3
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value f Normal value f Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentration in fresh water in marine water for fresh water sed for marine water sed of STP microorgan for the food chain ( for the terrestrial co rived no-effect l	Effects on consumers Acute local Acute loc	Acute systemic hydrotreating TWA/8h mg/m3 5	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027 100 4 0,118 Chronic	workers Acute local	systemic Remarks Observa r/l r/l j/kg j/kg j/kg j/kg j/kg j/kg	5,58 mg/m3	systemic 2,73 mg/m3 0,97 mg/kg
Route of expose Oral Inhalation Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value i Normal value f Normal value f Normal value f Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentration in fresh water in marine water for fresh water sed for marine water sed of STP microorgan for the food chain ( for the terrestrial co rived no-effect l	Effects on consumers Acute local Acute loc	Acute systemic  hydrotreating TWA/8h mg/m3 5 5 ing)	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027 100 4 0,118	workers Acute local Acute local ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	systemic Remarks Observa r/l r/l g/kg g/l g/kg g/kg	5,58 mg/m3	systemic 2,73 mg/m3 0,97 mg/kg
Route of expose Oral Inhalation Skin Skin distillates (p Threshold L Type OEL Phenol, dod Predicted no-e Normal value i Normal value i Normal value f Normal value f Normal value f Normal value f	petroleum), hea Limit Value decyl-, brancher effect concentration in fresh water in marine water for fresh water sed for marine water sed of STP microorgan for the food chain ( for the terrestrial co rived no-effect l	Effects on consumers Acute local Acute loc	Acute systemic hydrotreating TWA/8h mg/m3 5 5 ing) DMEL Acute systemic	1,19 mg/m3	systemic 0,74 mg/kg STEL/15min mg/m3 0,074 0,007 0,226 0,027 100 4 0,118 Chronic systemic	workers Acute local Acute local ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	systemic Remarks Observa r/l r/l j/kg j/kg j/kg j/kg j/kg j/kg	5,58 mg/m3	systemic 2,73 mg/m3 0,97 mg/kg

Legend:

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C) = CEILING ; INHAL = Inhalable	Fraction ; RESP = Respira	ble Fraction ; THORA = Thoraci	c Fraction.
/ND = hazard identified but no DNEL nedium hazard ; HIGH = high haza		o exposure expected ; NPI = no	hazard identified ; LOW = low hazard ; MED =
8.2. Exposure controls			
As the use of adequate technical eq hrough effective local aspiration.	uipment must always take pri	ority over personal protective equi	ipment, make sure that the workplace is well aired
IAND PROTECTION Protect hands with category III work g The following should be considered w The work gloves' resistance to chemic and type of use.	hen choosing work glove mate	erial: compatibility, degradation, fai	lure time and permeability. ble. The gloves' wear time depends on the duration
KIN PROTECTION Vear category I professional long-sle Ind water after removing protective c		wear (see Regulation 2016/425 a	nd standard EN ISO 20344). Wash body with soap
YE PROTECTION Vear airtight protective goggles (see	standard EN 166).		
whose class (1, 2 or 3) must be cho various kinds and/or gases or vapours Respiratory protection devices must values considered. The protection pro- f the substance considered is odour	sen according to the limit of us s containing particulate (aeros be used if the technical mea ovided by masks is in any case less or its olfactory threshold g apparatus (in compliance v	use concentration. (see standard E ol sprays, fumes, mists, etc.) comb sures adopted are not suitable for e limited. is higher than the corresponding vith standard EN 137) or external	sent in the product, use a mask with a type B filter EN 14387). In the presence of gases or vapours of ined filters are required. r restricting the worker's exposure to the threshold TLV-TWA and in the case of an emergency, wear air-intake breathing apparatus (in compliance with
NVIRONMENTAL EXPOSURE CON he emissions generated by manufac nvironmental standards.		ose generated by ventilation equip	ment, should be checked to ensure compliance with
Product residues must not be indiscri	minately disposed of with was	te water or by dumping in waterway	ys.
SECTION 9. Physical and	d chamical propertie		
SECTION 9. Physical and	a chemical propertie	5	
9.1. Information on basic physica	I and chemical properties		
Properties	Value	Information	
Appearance Colour	liquid		
Odour	yellow characteristic		
Melting point / freezing point	not available		
Initial boiling point	not available		
ninda boliniy point	not available		

not available

not available

not available

Flammability

Lower explosive limit

Upper explosive limit



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Flash point	225 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
рН	not available
Kinematic viscosity	181 cSt
Solubility	insoluble
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	0,922 g/l
Relative vapour density	not available
Particle characteristics	not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

### Information not available

9.2.2. Other safety characteristics

Viscosita a 40°C	181,06 cSt
Viscosità a 100°C	22,65 cSt
Punto di scorrimento	-33°C
Consistenza	Non pertinente
Punto di gocciolamento	Non pertinente

## **SECTION 10. Stability and reactivity**

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

Information not available

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10.6. Hazardous decomposition pro	ducts	
Information not available		
SECTION 11. Toxicologic		
11.1. Information on hazard classes	as defined in Regulation (EC) No 1272/2008	
Metabolism, toxicokinetics, mechanism	of action and other information	
Information not available		
Information on likely routes of exposur	<u>e</u>	
Information not available		
Delayed and immediate effects as wel	as chronic effects from short and long-term exposure	
Information not available		
Interactive effects		
Information not available		
ACUTE TOXICITY		
ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	Not classified (no significant compone Not classified (no significant compone Not classified (no significant compone	ent)
distillates (petroleum), heavy paraffinio	+ hydrotreating	
LD50 (Dermal):	> 5000 mg/kg Coniglio - OECD Guide	eline 402
LD50 (Oral): LC50 (Inhalation vapours):	> 5000 mg/kg Ratto - OECD Guideline > 5,53 mg/l/4h Ratto - OECD Guidelin	e 401
4-(1,1,3,3-tetramethylbutyl)phenol		
LD50 (Dermal): STA (Dermal):	> 2000 mg/kg Coniglio - Equivalente c 1100 mg/kg estimate from table 3.1.2	o similare a OECD Guideline 402
	The myny estimate non table 0.1.2	

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		(figure used for calculation of the acute toxicity estin	nate of the mixture)
LD50 (Oral):		4040 mg/kg Ratto - OECD Guideline 401	
Phenol, dodecyl-, branched			
LD50 (Dermal):		15000 mg/kg bw Rabbit - Equivalente o similare a C	ECD Guideline 402
LD50 (Oral):		2100 mg/kg bw Rat - Equivalente o similare a OEC	J Guideline 401
SKIN CORROSION / IRRITATION			
Does not meet the classification criteri	a for this hazard class		
SERIOUS EYE DAMAGE / IRRITATIO	<u>)N</u>		
Does not meet the classification criteri	a for this hazard class		
RESPIRATORY OR SKIN SENSITISA	<u>ATION</u>		
Does not meet the classification criteri	a for this hazard class		
GERM CELL MUTAGENICITY			
Does not meet the classification criteri	a for this hazard class		
CARCINOGENICITY			
Does not meet the classification criteri	a for this hazard class		
REPRODUCTIVE TOXICITY			
Does not meet the classification criteri	a for this hazard class		
STOT - SINGLE EXPOSURE			
Does not meet the classification criteri	a for this hazard class		



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STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 181 cSt

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity

Mineral oil	
LC50 - for Fish	> 100 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 10000 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Alghe verdi (Scenedesmus quadricauda)
Chronic NOEC for Crustacea	> 10 mg/l/21d Dafnia
Phenol, dodecyl-, branched	
LC50 - for Fish	40 mg/l/96h Pimephales promelas
EC50 - for Crustacea	0,037 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	0,36 mg/l/48h Alghe Verdi
Chronic NOEC for Crustacea	0,0037 mg/l/21d Dafnia
4-(1,1,3,3-tetramethylbutyl)phenol	
LC50 - for Fish	0,26 mg/l/96h Leuciscus idus melanotus - OECD Guideline 203
EC50 - for Crustacea	0,27 mg/l/48h Dafnia
EC50 - for Algae / Aquatic Plants	1,9 mg/l/96h Pseudokirchnerella subcapitata - ASTM E47.01 1983
Chronic NOEC for Fish	0,012 mg/l/78d Danio rerio - OECD Guideline 210
distillates (petroleum), heavy paraffinic +	
hydrotreating EC50 - for Crustacea	> 10000 mg/l/48h Dafnia
Chronic NOEC for Crustacea	10 mg/l/21d Dafnia
12.2. Persistence and degradability	
······	

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Mineral oil		
NOT rapidly degradable		
OECD TG 301 B, 31 %, 28 d, Non fa Phenol, dodecyl-, branched	cilmente degradabile.	
NOT rapidly degradable		
OECD TG 301 B, 25 %, 28 d 4-(1,1,3,3-tetramethylbutyl)phenol		
Rapidly degradable distillates (petroleum), heavy paraffin hydrotreating Entirely degradable	ic +	
OECD Guideline 301 F 2.3. Bioaccumulative potential		
Phenol, dodecyl-, branched		
Partition coefficient: n-octanol/water	7,14 Log Kow (Misurato)	
BCF	794,33 (Misurato)	
2.4. Mobility in soil		
nformation not available		
2.5. Results of PBT and vPvB asse		

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

# **SECTION 14. Transport information**

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The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.				
14.1. UN number or ID number				
not applicable				
14.2. UN proper shipping name				
not applicable				
14.3. Transport hazard class(es)				
not applicable				
14.4. Packing group				
not applicable				
14.5. Environmental hazards				
not applicable				
14.6. Special precautions for user				
not applicable				
14.7. Maritime transport in bulk acco	ording to IMO instruments			
Information not relevant				
SECTION 15. Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				

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	·			
Seveso Category - Directive 2012/18/	EU: None			
Restrictions relating to the product or	contained substances pursuant to Annex XVII to EC Regulation 1907/2006			
Product				
Point	3			
Contained substance				
Point	75			
Regulation (EU) 2019/1148 - on the m	narketing and use of explosives precursors			
not applicable				
Substances in Candidate List (Art. 59	REACH)			
On the basis of available data, the pro	duct does not contain any SVHC in percentage $\geq$ than 0,1%.			
Substances subject to authorisation (/	Annex XIV REACH)			
None				
Substances subject to exportation rep	orting pursuant to Regulation (EU) 649/2012:			
None				
Substances subject to the Rotterdam	Convention:			
None				
Substances subject to the Stockholm	Convention:			
None				
Healthcare controls				
Information not available				
15.2. Chemical safety assessmen	t			
A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.				
SECTION 16. Other information				
Text of hazard (H) indications mentioned in section 2-3 of the sheet:				
Repr. 1B Reprodu	ctive toxicity, category 1B			

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Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H360F	May damage fertility.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
- ATE: Acute Toxicity Estima - CAS: Chemical Abstract Se	

centration (required to induce a 50% effect) Effective CE: Identifier in ESIS (European archive of existing substances)

CLP: Regulation (EC) 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals

- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

OEL: Occupational Exposure Level

PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration

PEL: Predicted exposure level

PNEC: Predicted no effect concentration

REACH: Regulation (EC) 1907/2006

RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

TWA: Time-weighted average exposure limit

TWA STEL: Short-term exposure limit

VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament

3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)

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<ul> <li>4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament</li> <li>5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament</li> <li>6. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament</li> <li>7. Regulation (EU) 944/2013 (IV Atp. CLP) of the European Parliament</li> <li>8. Regulation (EU) 944/2013 (IV Atp. CLP) of the European Parliament</li> <li>9. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament</li> <li>11. Regulation (EU) 2016/918 (VII Atp. CLP) of the European Parliament</li> <li>12. Regulation (EU) 2016/918 (VII Atp. CLP) of the European Parliament</li> <li>13. Regulation (EU) 2017/776 (X Atp. CLP)</li> <li>14. Regulation (EU) 2019/521 (XII Atp. CLP)</li> <li>15. Regulation (EU) 2019/521 (XII Atp. CLP)</li> <li>16. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)</li> <li>19. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)</li> <li>10. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)</li> <li>12. Delegated Regulation (UE) 2021/182 (XV Atp. CLP)</li> <li>13. Delegated Regulation (UE) 2021/182 (XV Atp. CLP)</li> <li>14. Delegated Regulation (UE) 2021/184 (XVI Atp. CLP)</li> <li>15. Delegated Regulation (UE) 2022/217 (XIV Atp. CLP)</li> <li>16. Delegated Regulation (UE) 2022/217 (XIV Atp. CLP)</li> <li>17. Regulation (UE) 2021/184 (XVI Atp. CLP)</li> <li>19. Delegated Regulation (UE) 2022/178 (XVI Atp. CLP)</li> <li>20. Delegated Regulation (UE) 2022/21849 (XVII Atp. CLP)</li> <li>21. Delegated Regulation (UE) 2022/2382 (XVIII Atp. CLP)</li> <li>22. Delegated Regulation (UE) 2022/2382 (XVIII Atp. CLP)</li> <li>23. Delegated Regulation (UE) 2022/2382 (XVIII Atp. CLP)</li> <li>24. Delegated Regulation (UE) 2022/2382 (XVIII Atp. CLP)</li> <li>25. Fich Toxicologique (toxicological sheet)</li> <li>24. Holdstrial Hygiene and Toxicology</li> <li>24. Save Dangerous properties of Industrial Materials-7, 1989 Edition</li> <li>24. Fich Avebsite</li> <li>25. ECHA websit</li></ul>			

Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 03/08/11/12/15.