according to Regulation (EC) No. 1907/2006 - ES (Commission Regulation (EU) 2020/878)



OKS 471

Version	Revision Date:	Date of last issue: 12.05.2021	Print Date:
2.2	13.12.2022	Date of first issue: 09.07.2016	13.12.2022

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

1.1 Product identifier		
Product name	:	OKS 471
1.2 Delevent identified uses of th		whatened as mixture and used advised against
		ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Lubricant spray
Recommended restrictions on use	:	Restricted to professional users.
1.3 Details of the supplier of the	saf	ety data sheet
Company	:	OKS Spezialschmierstoffe GmbH
		Ganghoferstr. 47
		D-82216 Maisach-Gernlinden
		Tel.: +49 8142 3051 500
		Fax.: +49 8142 3051 599
		info@oks-germany.com
E-mail address of person responsible for the SDS	:	mcm@oks-germany.com Material Compliance Management
responsible for the SDS		Material Compliance Management
National contact	:	
1.4 Emergency telephone number	ər	
Emergency telephone num-	:	+34 91 562 04 20
ber		
SECTION 2: Hazards identific	atio	on
2.4. Classification of the substan		
2.1 Classification of the substant		
Classification (REGULATIO	N (E	EC) No 1272/2008)
Aerosols, Category 1		H222: Extremely flammable aerosol.
		H229: Pressurised container: May burst if heate

 Aerosols, Category 1
 H222: Extremely flammable aerosol.

 H229: Pressurised container: May burst if heated.

 Aspiration hazard, Category 1
 H304: May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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	<i>1</i> 1				
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Ha	zard pictograms	:			
Sig	nal word	:	Danger		
Ha	zard statements	:	H222 H229 H304	Extremely flammable Pressurised containe May be fatal if swallor ways.	r: May burst if heated.
	oplemental Hazard tements	:	EUH066	Repeated expos dryness or cracking.	ure may cause skin
Pre	ecautionary statements	:	Prevention:		
			P210		, hot surfaces, sparks, er ignition sources. No
			P211	Do not spray on an op ignition source.	pen flame or other
			P251	Do not pierce or burn	, even after use.
			Response:		
			P301 + P310	IF SWALLOWED: Im POISON CENTER/ d	
			P331	Do NOT induce vomit	ting.
			Storage:		
			P410 + P412	Protect from sunlight. temperatures exceed	

Hazardous components which must be listed on the label:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Active agent with propellant and solvent. Mineral oil.

Components

EC-No. Index-No. Registration numberEC-No. Index-No. Registration numberItration limit M-Factor Acute toxicity estimate $(\% w/w)$ whereHydrocarbons, C11- C12, Isoalkanes, < 2% aromatics918-167-1Flam. Liq.3; H226 Asp. Tox.1; H304; EUH066Note P>= 30 - < 50Substances with a workplace exposure limit : butane01-2119472146-39- XXXXFlam. Gas1A; H220 Press. GasCompr. Gas; H280Note U (table 3.1), Note C>= 20 - < 30distillates (petroleum), hydrotreated heavy paraffinic64742-54-7 649-467-00-8 01-2119484627-25- XXXXNot classified Press. GasCompr. Gas; H280Note L>= 10 - < 20Distillates (petroleum), hydrotreated heavy paraffinic74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXXFlam. Gas1A; H220 Press. GasCompr. Gas; H280Note U (table 3.1), Note C>= 1 - < 10Distillates (petroleum), hydrotreated heavy paraffinic64742-52-5 20-827-9 01-2119486944-21- XXXXNot classified 200-827-9 Press. GasCompr. Gas; H280Note U (table 3.1)>= 1 - < 10Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified64742-52-5 649-465-00-7 01-2119467170-45- XXXXNot classified 206-97-1>= 1 - < 10Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified64742-72-5 649-465-00-7 01-2119467170-45- XXXXNot classified 206-97-1>= 1 - < 10lithium 12-7620-77-1Not classified 207-71>= 1 - < 10	Chemical name	CAS-No.	Classification	specific concen-	Concentration
Index-No. Registration number Notes Acute toxicity estimate Hydrocarbons, C11- C12, isoalkanes, < 2% aromatics 918-167-1 Flam. Liq.3; H226 Asp. Tox.1; H304; EUH066 Note P >= 30 - < 50					
Registration numberAcute toxicity estimateHydrocarbons, C11- C12, isoalkanes, < 2% aromatics918-167-1Flam. Liq.3; H226 Asp. Tox.1; H304; EUH066Note PSubstances with a workplace exposure limit : butane106-97-8 203-448-7 601-004-00-0 01-2119474691-32- XXXXFlam. Gas1A; H220 Press. GasCompr. Gas; H280Note U (table 3.1), Note Cdistillates (petroleum), hydrotreated heavy paraffinic64742-54-7 265-157-1 601-003-00-5 01-2119484627-25- XXXXNot classified Press. GasCompr. Note L>= 10 - < 20					
Hydrocarbons, C11- C12, isoalkanes, < 2% aromatics918-167-1Flam, Liq.3; H226 Asp. Tox.1; H304; EUH066Note P $\geq 30 - < 50$ Substances with a workplace exposure limit : butane01-2119472146-39- XXXXFlam. Gas1A; H220 Press. GasCompr. Gas; H280Note U (table 3.1), Note C $\geq 20 - < 30$ distillates (petroleum), hydrotreated heavy paraffinic64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-XXXXNot classified Press. GasCompr. Gas; H280Note L $\geq = 10 - < 20$ propane74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXXFlam. Gas1A; H220 Press. GasCompr. Gas; H280Note U (table 3.1) $\geq = 1 - < 10$ Distillates (petroleum), hydrotreated heavy paraffinic64742-52-5 200-827-9Not classified Press. GasCompr. Gas; H280Note U (table 3.1) $\geq = 1 - < 10$ Distillates (petroleum), hydrotreated heavy paraffinic64742-52-5 200-827-9Not classified Press. GasCompr. Gas; H280Note U (table 3.1) $\geq = 1 - < 10$ Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified64742-52-5 265-155-0 649-465-00-7 01-2119467170-45- XXXXNot classified Andel Assified $\geq = 1 - < 10$ lithium 12-7620-77-1Not classified Anot classified $\geq = 1 - < 10$					
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01-2119484627-25- XXXPropane01-2119484627-25- XXXPropane74-98-6 200-827-9Flam. Gas1A; 	paraminic	640 467 00 9		NOTE L	
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XXXX Not classified >= 1 - < 10	unspecified				
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	lithium 12-	7620-77-1	Not classified		>= 1 - < 10
	hydroxystearate	231-536-5			



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		01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX			
		471-34-1 207-439-9 01-2119486795-18- 0000	Not classified		>= 1 - < 10
isobutane	9	75-28-5 200-857-2 601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled :	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respira- tion.
In case of skin contact :	Take off all contaminated clothing immediately. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Seek medical advice.
If swallowed :	Move the victim to fresh air.



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		Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Aspiration hazard if swallowed - c damage.	an enter lungs and cause
4.2 Most i	important symptom	s and effects, both acute and delayed	
Symp	otoms	 Inhalation may provoke the follow Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness Skin contact may provoke the follow Erythema 	
Risks	3	 Aspiration may cause pulmonary Can be absorbed through skin. Risk of product entering the lungs Health injuries may be delayed. 	

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentra- tions. Vapours can accumulate in low areas.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides

5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



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for fire	efighters	Use personal protective equipment tion products may be a hazard to	
Further information		: Standard procedure for chemical Collect contaminated fire extingui must not be discharged into drain Cool containers/tanks with water	shing water separately. This s.

SECTION 6: Accidental release measures

ctive equipment and emergency procedures
 Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.
: Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
ntainment and cleaning up
 Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	9
Advice on safe handling	 Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces.



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		Smoking, eating and drinking she plication area. Wash hands and face before bre handling the product. Do not get in eyes or mouth or o Do not get on skin or clothing. Do not ingest. Do not use sparking tools. These safety instructions also ap may still contain product residue Pressurized container: protect fro pose to temperatures exceeding even after use.	eaks and immediately after n skin. oply to empty packaging which s. om sunlight and do not ex-
Hygie	ene measures	: Wash face, hands and any expo handling.	sed skin thoroughly after
7.2 Condi	tions for safe storag	e, including any incompatibilities	
	irements for storage and containers	: BEWARE: Aerosol is pressurized exposure and temperatures over or throw into fire even after use. red-hot objects. Store in accorda tional regulations.	50 °C. Do not open by force Do not spray on flames or
-	f ic end use(s) ific use(s)	: Specific instructions for handling	, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butane	106-97-8	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)
distillates (petrole- um), hydrotreated heavy paraffinic	64742-54-7	VLA-ED (Mist)	5 mg/m3	ES VLA (2019-02-20)
		VLA-EC (Mist)	10 mg/m3	ES VLA (2019-02-20)
propane	74-98-6	VLA-ED	1.000 ppm	ES VLA (2011-03-03)
Distillates (petrole- um), hydrotreated heavy naphthenic; Baseoil — un- specified	64742-52-5	VLA-ED (Mist)	5 mg/m3	ES VLA (2019-02-20)



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		VLA-EC (Mist)	10 mg/m3	ES VLA (2019-02-20)
lithium 12- hydroxystearate	7620-77-1	VLA-ED	10 mg/m3	ES VLA (2012-01-01)
calcium carbonate	471-34-1	VLA-ED	10 mg/m3	ES VLA (2006-01-01)
isobutane	75-28-5	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
distillates (petroleum), hydrotreated heavy paraffinic	Workers	Inhalation	Long-term local ef- fects	5,58 mg/m3
	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg
Distillates (petrole- um), hydrotreated heavy naphthenic; Baseoil — unspecified	Workers	Inhalation	Long-term local ef- fects	5,58 mg/m3
	Workers	Inhalation	Long-term systemic effects	2,73 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,97 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
distillates (petroleum), hy-	Oral	9,33 mg/kg
drotreated heavy paraffinic		
Distillates (petroleum), hy-	Oral	9,33 mg/kg
drotreated heavy naphthenic;		
Baseoil — unspecified		

8.2 Exposure controls

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection	:	Safety glasses with side-shields
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1

Remarks

: Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the



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			as to be measured for each s have to satisfy the specifica- 5/425 and the standard EN 374
Skin	and body protection		ation to its type, to the concen- ous substances, and to the spe-
Resp	piratory protection	: Respirator with combination fi 141) Short term only	ilter for vapour/particulate (EN
			ess adequate local exhaust ven- e assessment demonstrates that ended exposure guidelines.
F	ilter type	: ABEK-P3-filter	
Prote	ective measures		ent must be selected according unt of the dangerous substance

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Colour	:	white
Odour	:	hydrocarbon-like
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	-44 °C (1.013 hPa)
Flammability (solid, gas)	:	Extremely flammable aerosol.
Upper explosion limit / Upper flammability limit	:	8,5 %(V)
Lower explosion limit / Lower flammability limit	:	1,5 %(V)
Flash point	:	-97,00 °C



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				Method: Abel-Pensky	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	Not applicable substance/mixture is non-soluble (in wa	ater)
	Viscosi Visc	ty cosity, dynamic	:	No data available	
	Visc	cosity, kinematic	:	< 20,5 mm2/s (40 °C)	
	Solubili Wat	ity(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	; ;	No data available	
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Vapour	pressure	:	3.500 hPa (20 °C)	
	Relativ	e density	:	0,718 (20 °C) Reference substance: Water The value is calculated	
	Density	/	:	0,72 g/cm3 (20 °C)	
	Bulk de	ensity	:	No data available	
	Relativ	e vapour density	:	No data available	
9.2 (Other in	oformation			
	Explosi	ves	:	Not explosive	
	Oxidiziı	ng properties	:	No data available	
	Self-igr	nition	:	not auto-flammable	
	Metal c	orrosion rate	:	Not corrosive to metals	
	Evapor	ation rate	:	No data available	
	Sublim	ation point	:	No data available	



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: No dangerous reaction known under conditions of normal use.

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	
10.4 Conditions to avoid	

Conditions to avoid	Heat, flames and sparks.
	Strong sunlight for prolonged periods.
	Risk of receptacle bursting.

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
--------------------	--------------------

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder
Acute dermal toxicity	:	Remarks: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
		Symptoms: Skin disorders
Components:		
Hydrocarbons, C11-C12, iso	alk	anes, < 2% aromatics:
Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402

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butane:		
Acute inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas
distillates (petroleum), hydr	otre	eated heavy paraffinic:
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): > 5,53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402
Distillates (petroleum), hvdr	otr	eated heavy naphthenic; Baseoil — unspecified:
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat): > 5,53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402 GLP: yes
lithium 12-hydroxystearate:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rabbit): > 3.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
calcium carbonate:		
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 420



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			GLP: yes Assessment: The substance or m icity	nixture has no acute oral tox-
Acute	inhalation toxicity	:	LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 40 GLP: yes Assessment: The substance or m tion toxicity	
Acute	dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Assessment: The substance or m toxicity	nixture has no acute dermal
isobu	tane:			
	inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
Skin d	corrosion/irritation			
Produ	ıct:			
Rema		:	This information is not available.	
<u>Comp</u>	onents:			
Hydro	ocarbons, C11-C12,	isoalk	anes, < 2% aromatics:	
Result	t	:	Repeated exposure may cause s	kin dryness or cracking.
distill	ates (petroleum), h	ydrotre	eated heavy paraffinic:	
Specie	es	:	Rabbit	
Asses	sment	:	No skin irritation	
Metho		:	OECD Test Guideline 404	
Result	t	:	No skin irritation	
GLP		:	yes	
Distill	ates (petroleum), h	ydrotre	eated heavy naphthenic; Baseoi	I — unspecified:
Specie		:	Rabbit	
	sment	:	No skin irritation	
Metho Result		:	OECD Test Guideline 404 No skin irritation	
lithiur	n 12-hydroxysteara	ite:		
	sment		No skin irritation	
Metho		:	OECD Test Guideline 439	
Result		:	No skin irritation	
		-		
				a brand of



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calcium carbonate:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

Serious eye damage/eye irritation

Product:

Remarks

: Contact with eyes may cause irritation.

Components:

distillates (petroleum), hydrotreated heavy paraffinic:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

lithium 12-hydroxystearate:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

calcium carbonate:

Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes

Respiratory or skin sensitisation

Product:

Remarks :	This information is not available.
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Components:

distillates (petroleum), hydrotreated heavy paraffinic:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

lithium 12-hydroxystearate:

Exposure routes	:	Dermal
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

calcium carbonate:

Species :	Mouse
Assessment :	Does not cause skin sensitisation.
Method :	Tested according to Annex V of Directive 67/548/EEC.
Result :	Does not cause skin sensitisation.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available

Components:

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified:

Genotoxicity in vitro :	Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: negative



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Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian mutagenic effects.	cell cultures did not show
Carci	nogenicity			
<u>Prodı</u> Rema		:	No data available	
Comp	oonents:			
distill	ates (petroleum), hyc	Irotro	eated heavy paraffinic:	
Carcir ment	nogenicity - Assess-	:	Not classifiable as a human carci	nogen.
Distil	lates (petroleum), hyd	drotr	eated heavy naphthenic; Baseoi	I — unspecified:
Carcir ment	nogenicity - Assess-	:	Not classifiable as a human carci	nogen.
Repro	oductive toxicity			
Produ	<u>uct:</u>			
Effect	s on fertility	:	Remarks: No data available	
Effect ment	s on foetal develop-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
			eated heavy paraffinic:	
Repro sessm	oductive toxicity - As-	:	2	
363311	lent		No toxicity to reproduction	
Distil	lates (petroleum), hyo	drotr	eated heavy naphthenic; Baseoi	I — unspecified:
Effect	s on foetal develop-	:	Species: Rat Application Route: Dermal General Toxicity Maternal: LOAE Teratogenicity: NOAEL: >= 2.000 Developmental Toxicity: NOAEL: Embryo-foetal toxicity: NOAEL: > Method: OECD Test Guideline 41 Result: No effects on fertility and ment were detected.	mg/kg body weight >= 2.000 mg/kg body weight = 2.000 mg/kg body weight
	oductive toxicity - As-	:	- Fertility -	
sessn	nent		No toxicity to reproduction - Teratogenicity -	
			No toxicity to reproduction	
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STOT - single exposure

Components:

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:		
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil — unspecified:		
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity		

Product:

Remarks

: This information is not available.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Components:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

May be fatal if swallowed and enters airways.

distillates (petroleum), hydrotreated heavy paraffinic:

No aspiration toxicity classification

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at



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		levels of 0.1% or higher.	
Furti <u>Prod</u>	her information luct:		
Rem	arks	: Information given is based or the toxicology of similar prod	n data on the components and ucts.
Com	ponents:		
calci	ium carbonate:		
Rem	arks	: Information given is based or the toxicology of similar prod	n data on the components and ucts.

SECTION 12: Ecological information

12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	Remarks: May cause long-term adverse effects in the aquatic			
	•	environment.			
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available			
Toxicity to algae/aquatic plants	:	Remarks: No data available			
Toxicity to microorganisms	:	Remarks: No data available			
Components:					
distillates (petroleum), hydrot	distillates (petroleum), hydrotreated heavy paraffinic:				
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test			
		Method: OECD Test Guideline 203 GLP: yes			
Toxicity to daphnia and other a aquatic invertebrates	:	Exposure time: 48 h			
		Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes			
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC: 10 mg/l Exposure time: 21 d			
ic toxicity)		Species: Daphnia magna (Water flea)			



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			Test Type: semi-static test Method: OECD Test Guideline 217 GLP: yes	I
	lates (petroleum), hyd ity to fish	rotro :	eated heavy naphthenic; Baseoil LC50 (Pimephales promelas (fathe Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	ead minnow)): > 100 mg/l
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic	:	LC50 (Pseudokirchneriella subcap mg/l Exposure time: 72 h Method: OECD Test Guideline 207	
Toxici icity)	ity to fish (Chronic tox-	:	NOELR: >= 1.000 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (ra Remarks: The value is calculated	ainbow trout)
	ity to daphnia and other tic invertebrates (Chron- icity)		NOELR: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water f Test Type: Reproduction Test Method: OECD Test Guideline 217	
lithiu	m 12-hydroxystearate	-		
	ity to fish	:	LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h	a)): > 100 mg/l
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokirchneriella subcar mg/l Exposure time: 72 h Method: OECD Test Guideline 207	
			NOEC (Pseudokirchneriella subca mg/l Exposure time: 72 h Method: OECD Test Guideline 207	



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calcium carbonate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: No data available
Physico-chemical removabil- ity	:	Remarks: No data available

Components:

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Biodegradability	:	Result: Not readily biodegradable.
------------------	---	------------------------------------

distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes
------------------	---	---

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified:

Biodegradability	:	Test Type: aerobic
		Inoculum: activated sludge
		Result: Not rapidly biodegradable
		Biodegradation: 3 %
		Exposure time: 28 d
		Method: OECD Test Guideline 301B
		GLP: yes

lithium 12-hydroxystearate:

Biodegradability	:	Test Type: Primary biodegradation
		Inoculum: activated sludge
		Result: rapidly biodegradable



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			Biodegradation: 74,7 % Exposure time: 28 d Method: OECD Test Guideline 301	С
calci	um carbonate:			
	egradability	:	Remarks: The methods for determi not applicable to inorganic substant	
12.3 Bioa	occumulative potential			
<u>Prod</u> Bioad	luct: ccumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
<u>Com</u>	ponents:			
Hydr	ocarbons, C11-C12, is	oalk	anes, < 2% aromatics:	
-	ccumulation	:	Remarks: No data available	
	tion coefficient: n- nol/water	:	Remarks: No data available	
buta	ne:			
	tion coefficient: n- nol/water	:	log Pow: 2,89 Method: OECD Test Guideline 107	
disti	llates (petroleum), hyd	rotr	eated heavy paraffinic:	
Partit	tion coefficient: n- nol/water	:	log Pow: > 2	
prop	ane:			
Partit	tion coefficient: n- nol/water	:	log Pow: 2,36	
lithiu	ım 12-hydroxystearate	:		
Partit	tion coefficient: n- nol/water	:	log Pow: 2,6	
isob	utane:			
	tion coefficient: n- nol/water	:	log Pow: 2,88 Method: OECD Test Guideline 107	
12.4 Mob	ility in soil			
Prod	luct:			
	—			



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Mobil	ity	:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
12.5 Resu	llts of PBT and vPvB a	asses	ssment	
<u>Prodi</u> Asses	<u>uct:</u> ssment	:	This substance/mixture contains no to be either persistent, bioaccumula very persistent and very bioaccumu 0.1% or higher.	tive and toxic (PBT), or
Com	ponents:			
distil	lates (petroleum), hyc	Irotre	ated heavy paraffinic:	
Asses	ssment	:	Non-classified vPvB substance. Nor	n-classified PBT substance
Distil	lates (netroleum), hvo	drotre	eated heavy naphthenic; Baseoil –	- unspecified:
	ssment	:	Non-classified PBT substance. Non	-
	_			
	um carbonate: ssment		Non-classified PBT substance. Non	-classified vPvB substance
7336	Samerit	•	Non-classified i Di Substance. Non	
12.6 Endo	ocrine disrupting prop	erties	S	
Prod	uct:			
Asses	ssment	:	The substance/mixture does not con ered to have endocrine disrupting p REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Reg levels of 0.1% or higher.	roperties according to Delegated regulation
12.7 Othe	r adverse effects			
<u>Prod</u> e Additi matio	ional ecological infor-	:	May cause long lasting harmful effe	cts to aquatic life.
	N 13: Disposal cons	idera	ations	

Product

: Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.



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		Waste codes should be assigr application for which the produ	
Contaminated packaging		the unused product. Offer empty spray cans to an	emptied must be disposed of as established disposal company. pierce or burn, even after use.
		The following Waste Codes ar	e only suggestions:
Wast	te Code	 unused product, packagings n 16 05 04*, gases in pressure o containing hazardous substan 	containers (including halons)

SECTION 14: Transport information

14.1 UN number or ID number		
ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950
ΙΑΤΑ	:	UN 1950
14.2 UN proper shipping name		
ADR	:	AEROSOLS
RID	:	AEROSOLS
IMDG	:	AEROSOLS
ΙΑΤΑ	:	Aerosols, flammable
14.3 Transport hazard class(es)		
ADR	:	2
RID	:	2
IMDG	:	2.1
ΙΑΤΑ	:	2.1
14.4 Packing group		
ADR Packing group Classification Code Labels Tunnel restriction code RID Packing group Classification Code		5F
Hazard Identification Number	:	23 23 / 28



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Labe	ls	: 2.1	
Labe	ing group	 Not assigned by regulation 2.1 F-D, S-U 	
Pack aircra Pack	ing instruction (LQ) ing group	 203 Y203 Not assigned by regulation Flammable Gas 	
Pack ger a Pack	(Passenger) ing instruction (passen- ircraft) ing instruction (LQ) ing group Is	 203 Y203 Not assigned by regulation Flammable Gas 	
14.5 Envi	ronmental hazards		
ADR Envir	onmentally hazardous	: no	
RID Envii	onmentally hazardous	: no	
IMD	G		

Marine pollutant : no 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks	:	Not applicable for product as supplied.
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SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	 This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable



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(EU. REACH-Annex XIV) Regulation (EC) No 1005/2009 on substances that de-Not applicable plete the ozone layer (EC 1005/2009) Regulation (EU) 2019/1021 on persistent organic pollu-Not applicable 2 tants (recast) (EU POP) Regulation (EC) No 649/2012 of the European Parlia-Not applicable 5 ment and the Council concerning the export and import of dangerous chemicals (EU PIC) : P2 Seveso III: Directive 2012/18/EU of the European FLAMMABLE AEROSOLS P3a Parliament and of the Council on the control of major-accident hazards involving dangerous substances. 18 Liquefied extremely flammable gases (including LPG) and natural gas 34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) Volatile organic compounds Directive 2010/75/EU of 24 November 2010 on industrial

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Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industria emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 78,75 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

This information is not available.



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SECTION 16: Other information

Full text of H-Statements		
EUH066	:	Repeated exposure may cause skin dryness or cracking.
H220	:	Extremely flammable gas.
H226	:	Flammable liquid and vapour.
H280	:	Contains gas under pressure; may explode if heated.
H304	:	May be fatal if swallowed and enters airways.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Note C	:	Some organic substances may be marketed either in a specif- ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub- stance is a specific isomer or a mixture of isomers.
Note L	:	The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determi- nation of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, Lon- don), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
Note P	:	The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regula- tion shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.
Note U (table 3.1)	:	When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part
ES VLA	:	2, Section 2.3.2.1, Note 2). Spain. Environmental Limits for exposure to Chemical agents

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		- Table 1: Occupational Exposure Values
ES VLA / VLA-ED		Environmental Daily Limit Value
ES VLA / VLA-EC	•	Environmental Short Term Value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixtur	e:	Classification procedure:
Aerosol 1	H222, H229	Based on product data or assessment
Asp. Tox. 1	H304	Based on product data or assessment

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