	fety Data She ording to Regulat		07/2006 (REACH)	
٢ra	ade name :	Lithofin N	lanoTOP	
	ion date : date :	30.01.2019 13.02.2019	Version (Revision) :	4.0.2 (4.0.1)
FC	TION 1. Identific	ation of the sub	ostance/mixture and of the company/ un	dertaking
.1	Product identifie			
.2	Relevant identi	fied uses	substance or mixture and uses advised a	gainst
.3		n, contains: organic s acturer/import	er/only representative/downstream use	r/distributor
	Distributor :		Casdron Enterprises Ltd.	
	Street :		Wood End, Prospect Road	
	Postal code/city :		GB- New Alresford, Hants SO 24 9QF	
			+44 1962 732126	
	Telephone : Telefax :		+44 1962 735373	
	Contact :		Technical Department E-mail: sales@lithofin.co.uk	
			Emergency telephone number: 0196 2732126 (Only available during office hours)	
	Supplier :		Lithofin AG	
	Street :		Heinrich-Otto-Str. 36	
	Postal code/city :		73240 Wendlingen	
	Telephone :		+49 (0)7024 9403-0	
	Telefax :		+49 (0)7024 9403-40	
	Contact :		Technical Department E-mail: info@lithofin.de	
			Emergency telephone number: +49 (0)7024 9403-0	
.4	Emergency telep see section 1.3	ohone number	(Only available during office hours)	
EC	TION 2: Hazards	identification		
.1	Classification of	the substance (	or mixture	
	Classification a	ccording to Reg	julation (EC) No 1272/2008 [CLP] he aquatic environment : Chronic 3 ; Harmful to aquatic li	ife with long lastin
	Asp. Tox. 1 ; H304 - Eye Irrit. 2 ; H319 -	Serious eye damage/e	ategory 1 ; May be fatal if swallowed and enters airways. eye irritation : Category 2 ; Causes serious eye irritation. Category 2 ; Highly flammable liquid and vapour.	
		STOT-single exposure	e : Category 3 ; May cause drowsiness or dizziness.	
	The mixture is classi <b>Remark</b>	fied as hazardous acc	ording to regulation (EC) No 1272/2008 [CLP].	
2		JH-phrases: see secti	on 16.	
.2	Label elements Labelling accord	ding to Regulat	ion (EC) No. 1272/2008 [CLP]	

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afety Data Sheet       (EN / D)         cording to Regulation (EC) No. 1907/2006 (REACH)         rade name :       Lithofin NanoTOP						
rade name : evision date : rint date :	Lithofin NanoTOP 30.01.2019 13.02.2019	Version (Revision) :	4.0.2 (4.0.1)			
Flame (GHS02) · H	lealth hazard (GHS08) · Exclamation mark (	GHS07)				
Signal word		,				
Danger						
Hazard componen	its for labelling					
Hydrocarbons, C9-C	10, n-alkanes, isoalkanes, cyclics, < 2% arom	atics ; CAS No. : (64742-49-0)				
ETHYL ACETATE ; C	AS No. : 141-78-6					
	11, n-alkanes, isoalkanes, cyclics, < 2% arom	atics ; CAS No. : (64742-48-9)				
Hazard statement	-					
H225	Highly flammable liquid and vapour.					
H304	May be fatal if swallowed and enters air	ways.				
H319	Causes serious eye irritation.					
H336	May cause drowsiness or dizziness.					
H412	Harmful to aquatic life with long lasting	effects.				
Precautionary sta	tements					
P102	Keep out of reach of children.					
P210	Keep away from heat, hot surfaces, spa smoking.	rks, open flames and other ignition	sources. No			
P301+P310	IF SWALLOWED: Immediately call a PO	ISON CENTER/doctor/				
P331	Do NOT induce vomiting.					
P405	Store locked up.					
	Dispose of contents/container in accord	ance with local and national regulat	ions.			
P501		5				
	zard information (EU)					

## 2.3 Other hazards

## Adverse physicochemical effects

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

## 2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

## Hazardous ingredients

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; REACH registration No.: 01-2119471843-32-xxxx; EC No.: 927-241-2; CAS No.: (64742-49-0) Weight fraction : ≥ 45 - < 50 % Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412 ETHYL ACETATE ; REACH registration No. : 01-2119475103-46-xxxx ; EC No. : 205-500-4; CAS No. : 141-78-6 Weight fraction : ≥ 10 - < 15 % Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH registration No. : 01-2119463258-33-xxxx ; EC No.: 919-857-5; CAS No.: (64742-48-9)  $\geq$  10 - < 15 % Weight fraction : Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

4.0.2 (4.0.1)

Trade name :

Print date :

Revision date : 13.02.2019

Classification 1272/2008 [CLP] :

Lithofin NanoTOP 30 01 2019

Version (Revision) :

N-BUTYL ACETATE ; REACH registration No. : 01-2119485493-29-xxxx ; EC No. : 204-658-1; CAS No. : 123-86-4 Weight fraction :

≥ 5 - < 10 %

Flam. Liq. 3 ; H226 STOT SE 3 ; H336

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P

Full text of H- and EUH-phrases: see section 16.

## **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

## General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. Observe risk of aspiration if vomiting occurs.

#### **Following inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

## In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

#### After ingestion

Call a physician immediately. Keep at rest. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

## Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.2 Most important symptoms and effects, both acute and delayed No information available.

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

Notes for the doctor

Treat symptomatically.

## Special treatment

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

### Suitable extinguishing media

Foam Carbon dioxide (CO2) BC-powder ABC-powder Water spray

## Unsuitable extinguishing media

Full water jet Strong water jet

## 5.2 Special hazards arising from the substance or mixture Hazardous combustion products

Carbon monoxide Carbon dioxide (CO2) Hydrogen fluoride Fluoropolymers

## 5.3 Advice for firefighters

Use suitable breathing apparatus. Special protective equipment for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4 Additional information

Revis	ade name : sion date : date :	Lithofin N 30.01.2019 13.02.2019	anoTOP	Version (Revision) :	4.0.2 (4.0.1
	Use water spray jet to enter drains or water			l containers. Do not allow run-off fro pustion gases.	m fire-fighting to
SEC	TION 6: Accident	al release meas	ures		
5.1	Personal precaut	tions. protective	e equipment ar	nd emergency procedures	
	Use personal protection	on equipment. Remove	e all sources of ignition	on. Provide adequate ventilation. Rer than air) and pay attention to the wi	
5.2	Environmental p				
		•		surface water or drains.	
5.3	Methods and ma		nment and cle	aning up	
	Clean contaminated	taking up: Universal b articles and floor acco	rding to the environn	nental legislation. Retain contaminat	ed washing wate
		se of waste according	to applicable legislat	tion.	
6.4	Reference to oth				
	Safe handling: see sec Personal protection ec Disposal: see section	uipment: see section	8		
SEC	TION 7: Handling	and storage			
7.1	Precautions for s When using do not ea	_			
	Protective meas				
	All work processes m Skin contact Eye con the removal of produ ventilation is not pos	nust always be designe tact Wear personal pro ict. Do not breathe gas sible or not sufficient,	otection equipment ( s/fumes/vapour/spra the entire working a	ng is excluded: Inhalation of vapours refer to section 8). Always close con y. Use only in well-ventilated areas. rea must be ventilated by technical r priority over personal protection equi	tainers tightly aft If local exhaust means. Technical
	Measures to preve	ent fire			
	ignition - No smokir	ng. The product is: Co		plosive mixtures with air. Keep away	from sources of
	Fire class :	В.			
	Shake well befor				
	Advices on gene	•			
		ff contaminated clothi	-		
7.2	Conditions for sa	• •	• /	mpatibilities	
		•	only in original contai	iner. The floor should be leak tight, j	ointless and not
	Hints on joint s	•	<u>j</u>		
	Storage class (TR	-			
	Protect from frost	nein			
	Recommended sto	orage temperature	5 - 25 °C		
	Further informa	-			
			n. Keep container tig	htly closed in a cool, well-ventilated	place.
7.3	Specific end use	• •			
	Recommendation	on			
	Observe technical da	ta sheet. Observe inst	ructions for use.		
EC	TION 8: Exposure	e controls/perso	onal protection		
			Page : 4 / 13		( FN /

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

Safety Data Sheet

(EN/D)

	fety Data She			( EN / D
CC	ording to Regulat	ion (EC) No. 1907/20	DO6 (REACH)	
Cer:	ade name :	Lithofin Nano	ТОР	
	sion date :	30.01.2019	Version (Revision) :	4.0.2 (4.0.1)
	: date :	13.02.2019		1.0.2 (1.0.1)
3.1	Control paramet	ers		
	-	posure limit values		
	•	•	s, < 2% aromatics ; CAS No. : (64742-49-0)	
	Limit value type (co	Intry of origin): TRGS 900 ( D	)	
	Limit value : Version :	600 mg/m <sup>3</sup>		
	ETHYL ACETATE ; CA	SNo · 141-78-6		
		Intry of origin): TRGS 900 ( D	)	
	Limit value :	200 ppm /	-	
	Peak limitation :	2(I)	-	
	Remark :	Ŷ		
	Version :	01.03.2018		
			< 2% aromatics ; CAS No. : (64742-48-9)	
	71 X	Intry of origin) : TRGS 900 ( D	)	
	Limit value : Version :	600 mg/m <sup>3</sup>		
	N-BUTYL ACETATE ; (	AS No. • 123-86-4		
		Intry of origin): TRGS 900 ( D	)	
	Limit value :	62 ppm / 3		
	Peak limitation :	2(I)		
	Remark :	Y		
	Version :	01.03.2018		
3.2	Exposure contro	IS		
	Appropriate en	gineering controls		
		itilation of the storage area. and the application of suitable	e work processes have priority over personal prote	ection equipment.
	Personal protec	tion equipment		
	Eye/face prote	ection		
	Suitable eye prot	ection		
	Eye glasses with s	ide protection goggles		
	Required propert	ies		
	DIN EN 166			
	Skin protection	า		
	Hand protection			
	-	type : Gloves with long cuffs		
			mponent. FKM (fluoro rubber), 0,7mm, >8h; r KCL GmbH/Eichenzell-Germany; Ansell/Yarra Ci	tv-Δustralia Or
		s from other companies.	r Ree Gribhy Elenenzeli Germany, Alisciy rana el	
	•	•	eck leak tightness/impermeability prior to use.	
			operties of the material must be taken into consid	
			nust be chosen as a function of the specific worki	
		. ,	nces. For special purposes, it is recommended to mentioned above together with the supplier of the mentioned above together mentioned above together mentioned	
		not substitutes for body prot	5 11	
	<b>Body protection</b>	, F		
	Protective clothing			
	-		ection clothing Chemical resistant safety shoes	
	Required prope			
		. : DIN EN ISO 20345 DIN EN	N 13034 DIN EN 14605	
	footwear : DIN EN Remark : Barrier	creams are not substitutes fo	r body protection	
	Respiratory pr		any Respiratory protection percessory at insuffici	ont vontilation
			ary. Respiratory protection necessary at: insuffici	CITE VEHILIIGUUII
	aerosol or mist form	nation. high concentrations sp	pray application	

Trade name : Revision date :	Lithofin NanoTO 30.01.2019	P Version (Revision) :	4.0.2 (4.0.1)
Print date :	13.02.2019		
Combination filter	ring device (EN 14387) Half-face ma	usk (DIN FN 140) ABEK-P1	
Remark			
Use only respirate	ory protection equipment with CE-sy	mbol including four digit test number. Obse	erve the wear time
limits according G	SefStoffV in combination with the ru	es for using respiratory protection apparatu	is (BGR 190).
General health	and safety measures		
When using do not skin, eyes and cloth	eat, drink, smoke, sniff. Keep away es. Remove contaminated, saturate fore breaks and after work. Apply s	ing with working materials are specified in t from food, drink and animal feeding stuffs. d clothing immediately. Wash contaminated kin care products after work. Do not breath	Avoid contact with clothing prior to re
gas/fumes/vapour/s			

## 9.1 Information on basic p

	Dasic pily	Sical allu cilei	ilical prope			
Appearance :	Liquid					
Colour :	colourless					
Odour :	solvent					
Safety relevant	t basis dat	ta				
Melting point/melti		(1013 hPa)	<	-18	°C	
Initial boiling point range :	and boiling	(1013 hPa)	approx.	85	°C	
Decomposition tem	perature :	(1013 hPa)		not determined		
Flash point :			<	10	°C	closed cup (EN ISO 3679)
Ignition temperatu	re :			not determined		(
Sustaining combust	tion			Yes		UN Test L2:Sustained combustibility test
Lower explosion lin Upper explosion lin				not determined not determined		
Vapour pressure :		( 50 °C )	<	1000	hPa	
Density :		( 20 °C )		0,82	g/cm <sup>3</sup>	Pyknometer (DIN EN ISO 2811-1)
Solvent separation	test :	(20 °C)	<	3	%	Test L1: Solvent separation test (UN)
Water solubility		( 20 °C )		hydrolysed		
pH :				not applicable		DIN 19268
log P O/W :				not determined		(Mixture)
Flow time :		( 23 °C )	approx.	11	S	ISO cup 4 mm (DIN EN ISO 2431)
Odour threshold :				not determined		
Vapourisation rate	:			not determined		
VOC content-EC			approx.	79	Wt %	*
VOC-France				A+		Décret no 2011-321 du 23 mars 2011

(\* VOC-EC = ",Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

## 9.2 Other information

Data apply to the main component: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS: 64742-49-0) Lower explosion limit (Vol-%): 0,8 Upper explosion limit (Vol-%): 6,0 log P O/W: 4,0 - 5,7

Data apply to the main component: ETHYL ACETATE (CAS: 141-78-6) Lower explosion limit (Vol-%): 2,1 Upper explosion limit (Vol-%): 11,5 (EN/D)

**Safety Data Sheet** 

#### Trade name : Lit

Safety Data She according to Regulat	et ion (EC) No. 1907/2006 (I	REACH)	( EN / D )
Trade name : Revision date : Print date :	<b>Lithofin NanoTOP</b> 30.01.2019 13.02.2019	Version (Revision) :	4.0.2 (4.0.1)
log P O/W: 0,68			
SECTION 10: Stabilit	y and reactivity		
10.1 Postivity			
<b>10.1 Reactivity</b> No specific test data re	elated to reactivity available for this p	product or its ingredients.	
10.2 Chemical stabilit			
		itions of storage, use and temperature.	
10.3 Possibility of haz	v when handled and stored according	to provisions	
10.4 Conditions to av			
	ended storage and handling condition	IS.	
10.5 Incompatible ma			
No data available			
10.6 Hazardous decor	mposition products		
Does not decompose	when used for intended uses.		
SECTION 11: Toxicol	ogical information		
SECTION II. TOXICON	Sylcar mormation		
11.1 Information on t	oxicological effects		
Acute effects	-		
There are no data av	vailable on the preparation/mixture its	self. Data apply to the main component.	
Acute oral toxicity			
Parameter :	LD50 ( ETHYL ACETA Oral	TE ; CAS No. : 141-78-6 )	
Exposure route : Species :	Rat		
Effective dose :	5600 mg/kg		
Parameter :	LD50 ( N-BUTYL ACE	TATE ; CAS No. : 123-86-4 )	
Exposure route :	Oral		
Species : Effective dose :	Rat 10760 mg/kg		
Method :	OECD 423		
Parameter :	LD50 (Hydrocarbons,	, C9-C10, n-alkanes, isoalkanes, cyclics, < 29	% aromatics ; CAS
Exposure route :	No. : (64742-49-0) ) Oral		
Species :	Rat		
Effective dose :	> 5000 mg/kg		
Parameter :		, C9-C11, n-alkanes, isoalkanes, cyclics, < 29	% aromatics ; CAS
Exposure route :	No. : (64742-48-9) ) Oral		
Species :	Rat		
Effective dose :	> 5000 mg/kg		
Acute dermal toxic	•		
Parameter :	•	TE ; CAS No. : 141-78-6 )	
Exposure route : Species :	Dermal Rabbit		
Effective dose :	18000 mg/kg		
Parameter :	LD50 ( N-BUTYL ACE	TATE ; CAS No. : 123-86-4 )	
Exposure route :	Dermal		
Species :	Rabbit		
Effective dose : Method :	> 14112 mg/kg OECD 402		
Parameter :		, C9-C10, n-alkanes, isoalkanes, cyclics, < 29	% aromatics ; CAS
	No. : (64742-49-0) )	· · · · · · · · · · · · · · · · · · ·	,

Data apply to the main component. There are no data available on the preparation/mixture itself. Page : $8 / 13$	Transmer:       Lithofin NanorDep         Evidend etti:       13.02.2019         Ymed etti:       Dep (Yydry 249-07)         Ymed etti:		et		( EN / I
wind date:     300.2019     4.0.2 (4.0.1)       Species:     Abbb     4.0.2 (4.0.1)       Begosure route:     Wind (4.0.2.4.0.9))     4.0.2 (4.0.1)       Begosure route:     Wind (4.0.4.2.4.0.9))     4.0.2 (4.0.1)       Begosure route:     Wind (4.0.4.2.4.0.9))     4.0.2 (4.0.1)       Begosure route:     Wind (4.0.2.4.0.9))     4.0.2 (4.0.1)       Species:     Read     4.0.2 (4.0.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.1.4.	minimization afters:       minimization afters: <td< th=""><th>according to Regulat</th><th>ion (EC) No</th><th>o. 1907/2006 (REACH)</th><th></th></td<>	according to Regulat	ion (EC) No	o. 1907/2006 (REACH)	
Writic date:       13022019         Deposure route:       Rabbit         Effective dose:       > 5000 mg/kg         Parameter:       LDS0 (F4724-84-9))         Species:       Abbit         Effective dose:       > 5000 mg/kg         Actic inhalation toxicity       Demmal         Species:       > S000 mg/kg         Actic inhalation toxicity       Demmal         Species:       > Store mathematics         Effective dose:       > Store mathematics         Edite:       > Store mathematics         Edite:       Inhalation         Species:       Rat         Effective dose:       Store mathematics         Edite:       Inhalation         Species:       Rat         Effective dose:       23, 4 mg/l         Exposure tome:       Inhalation         Species:       Rat         Effective dose:       23, 4 mg/l         Exposure tome:       4 h         Medic:       OCCI 403         Species:       Rat         Effective dosposure may cause skin dyness or cracking.         Assessmet/classification       Res         Endet dosposure may cause skin dyness or cracking.         Assestanet on data ava	wint date :       13.02.2019         Exposure route :       Rabbit         Effective dose :       > 5000 mg/kg         Parameter :       LDS0 (Lifv/coarbons, C3-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; C         Species :       Rabbit         Effective dose :       > 5000 mg/kg         Actic inhalation toxicity       Dermal         Species :       Rabbit         Effective dose :       > 5000 mg/kg         Actic inhalation toxicity       Dermal         Species :       Rabbit         Effective dose :       Strange         Species :       Rat         Effective dose :       Strange         Species :       Rat         Effective dose :       Angle         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Inhalation         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Inhalation         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Angle         Species :       Rat         Effective dose :       254 mg/k         Specie	Trade name :	Lithofi	in NanoTOP	
Writic date:       13022019         Deposure route:       Rabbit         Effective dose:       > 5000 mg/kg         Parameter:       LDS0 (F4724-84-9))         Species:       Abbit         Effective dose:       > 5000 mg/kg         Actic inhalation toxicity       Demmal         Species:       > S000 mg/kg         Actic inhalation toxicity       Demmal         Species:       > Store mathematics         Effective dose:       > Store mathematics         Edite:       > Store mathematics         Edite:       Inhalation         Species:       Rat         Effective dose:       Store mathematics         Edite:       Inhalation         Species:       Rat         Effective dose:       23, 4 mg/l         Exposure tome:       Inhalation         Species:       Rat         Effective dose:       23, 4 mg/l         Exposure tome:       4 h         Medic:       OCCI 403         Species:       Rat         Effective dosposure may cause skin dyness or cracking.         Assessmet/classification       Res         Endet dosposure may cause skin dyness or cracking.         Assestanet on data ava	wint date :       13.02.2019         Exposure route :       Rabbit         Effective dose :       > 5000 mg/kg         Parameter :       LDS0 (Lifv/coarbons, C3-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; C         Species :       Rabbit         Effective dose :       > 5000 mg/kg         Actic inhalation toxicity       Dermal         Species :       Rabbit         Effective dose :       > 5000 mg/kg         Actic inhalation toxicity       Dermal         Species :       Rabbit         Effective dose :       Strange         Species :       Rat         Effective dose :       Strange         Species :       Rat         Effective dose :       Angle         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Inhalation         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Inhalation         Species :       Rat         Effective dose :       254 mg/k         Exposure route :       Angle         Species :       Rat         Effective dose :       254 mg/k         Specie	Revision date :	30.01.2019	Version (Revision) :	4.0.2 (4.0.1
Species:       A soft (Hydrocatorons, CP-C11, n-akanes, isoakkanes, cyclics, -< 2% aromatics; CAS No. : (16/472-489.))         Porosure route :       Dermal         Species:       Rabbit         Effective does:       Species:         Anne inhalation toxicity       Response         Parameter:       LS9 (ETHYL ACETATE; CAS No. : 121-78-6.)         Exposure route       Babit         Species:       Response         Effective does:       Species         Species:       Response         Exposure route:       Distribution         Species:       Response         Effective does:       2.3 (mg/l)         Exposure route:       Heat         Effective does:       2.3 (mg/l)         Exposure route:       Heat         Effective does:       2.4 (mg/l)         Exposure route:       Heat         Exposure route:       2.4 (mg/l)         Row route doata valiable on the preparation/mixture itself.	species       Rabbit         Breakers       LDSG (Hydrocarbons, CS-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics; C         Species       Rabbit         Breameter       LCS0 (FNUTA ACTATE; CAS No. : 123-86-4):         Species       Rabbit         Breameter       And CCSO (Rabbit         Breameter       Rabbit         Breameter       Angle         Breameter       Angle         Breameter       Angle         Breameter       Angle         Breameter       Angle         Breameter       Angle         Breameter       Breametolocantoxall         Breameter	Print date :	13.02.2019		
Species:       A solid (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	species       Rabbit         Breakers       LDSG (Hydrocarbons, CS-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics; C				
Effective dose:       > 5000 mg/kg         Parameter:       LDS0 (Hydrocarbons, CP-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAI	Effective does:       > 5000 mg/kg         Parameter :       Liss (14y102-439-9) (1)         Parameter :       Demail         Species :       Rabbit         Effective does :       > 5000 mg/kg         Parameter :       Liss (14y102-439-9) (1)         Species :       Rat         Effective does :       S mg/l         Eposure tome :       Inhalation         Species :       Rat         Effective does :       23 mg/l         Eposure tome :       Inhalation         Species :       Rat         Effective does :       23 mg/l         Parameter :       Liss (14y11-42ETATE ; CAS No. : 123-86-4)         Eposure tome :       Inhalation         Species :       Rat         Effective does :       23 mg/l         Parameter :       Liss (14y11-42ETATE ; CAS No. : 123-86-4)         Eposure tome :       Liss (14y11-42ETATE ; CAS No. : 123-86-4)         Parameter :       Liss (14y11-42ETATE ; CAS No. : 123-86-4)         Parametor :				
Parameter:       LDSD (Hydropathons, CP-C11, n-alkanes, localkanes, cyclus, < 2% aromatics; CAI No. : (4742-489.))	Parameter:       LDS0 (Hydracentous, Cy-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics; f	•			
No.: (6/72-48-9.))         Species:       Species:         Species:       Species:         Parameter:       LCS0 (EHML ACETATE; CAS No.: 141-78-6.)         Species:       Species:         Species:       Species:         Parameter:       LCS0 (NBUTM ACETATE; CAS No.: 141-78-6.)         Species:       Species:         Effective dose:       Species:         Method:       OECD 403         Barter and ada available on the preparation/mixture itself. <b>Christenton</b> Species:         Barter and ada available on the preparation/mixture itself. <b>Christenton</b> Species:         Barter and ada available on the preparation/mixture itself.         Datications of human egrow off muscalescontere <b>Datications of human egrow off muscale</b>	No.: (cM742-49-9).         Species:       Rabbit         Species:       Rabbit         Species:       Souto mydig         Parameter:       LCS0 (FHYLACETATE; CAS No. : 141-78-6).         Species:       Rat         Effective does:       S B mg/l         Eposure note:       Inhalation         Species:       Rat         Effective does:       S B mg/l         Eposure time:       Ath         Species:       Rat         Effective does:       23,4 mg/l         Eposure time:       Ath         Method:       OECD-403 <b>Species:</b> Rat         Effective does:       23,4 mg/l         Eposure time:       Ath         Method:       OECD-403 <b>Species:</b> Rat         Effective does:       23,4 mg/l         Eposure time:       Ath         Method:       OECD-403 <b>Species:</b> Rat         Effective does:       23,4 mg/l         Eposure time:       Ath         Method:       OECD-403 <b>Species:</b> Statistification <b>Christation:</b> Method: <b>Christation:</b>			5. 5	
species       x         species       x         Parameter       LCS0 (FENYL ACETATE; CAS No. : 141-78-6.)         Species       Sending         Method       Operation of Sending         Method       OPECD 403 <b>Species</b> Sending         Method       OPECD 403 <b>Method</b> OPECD 403 <b>Method</b> OPECD 403 <b>Method</b> OPECD 403 <t< td=""><td>species       x         species       x         Parameter       LCS0 (ETHYL ACETATE; CAS No. : 141-78-6.)         Species       Ref         Method       OECD 403         <b>Chicl symptoms in animal studies</b>         Method       OECD 403         <b>Species</b>       Ref         Method       OECD 403         <b>Chicl symptoms in animal studies Method</b>       OECD 403         <b>Species</b>       Ref         Method       OECD 403         <b>Method</b>       OECD 403</td><td>Parameter :</td><td></td><td></td><td>% aromatics ; CAS</td></t<>	species       x         species       x         Parameter       LCS0 (ETHYL ACETATE; CAS No. : 141-78-6.)         Species       Ref         Method       OECD 403 <b>Chicl symptoms in animal studies</b> Method       OECD 403 <b>Species</b> Ref         Method       OECD 403 <b>Chicl symptoms in animal studies Method</b> OECD 403 <b>Species</b> Ref         Method       OECD 403 <b>Method</b> OECD 403	Parameter :			% aromatics ; CAS
Effective dose:       > \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective dase :       > \$000 mg/kg         Parameter :       LCS0 (ETHYL ACETATE ; CAS No. : 141-78-6.)         Exposure route :       Inhalation         Species :       Rat         Effective dase :       S8 mg/l         Deposure route :       LCS0 (M-DUTL ACETATE ; CAS No. : 123-86-4.)         Exposure route :       LCS0 (M-DUTL ACETATE ; CAS No. : 123-86-4.)         Species :       Rat         Breameter :       CLS0 (M-DUTL ACETATE ; CAS No. : 123-86-4.)         Species :       Rat         Breameter :       CLS0 (M-DUTL ACETATE ; CAS No. : 123-86-4.)         Species :       Rat         Breameter :       CLS0 (M-DUTL ACETATE ; CAS No. : 123-86-4.)         Species :       Rat         Method :       OCECD 403         Species :       Rat         Breameter :       CLS0 (M-DUTL RECENCENCE)         And available on the preparation/mixture itself.       Deposition         Method :       Carcinogenicity, mutagenicity and toxicity for reproduction (M-DUTL Recenter)         Metation of human carcinogenicity.       Carcinogenicity.         Metation of human carcinogenicity.       Metation of human carcinogenicity.         Metation of available on the preparation/mixture itself.       No indication of human reproductive toxicity exist.	Exposure route :		Dermal	
Acute inhalation toxicity         Parameter ::       LCS0 (THALACETATE ; CAS No. : 141-78-6)         Species ::       Rat         Species ::       Rat         Effective dose ::       Sping/l         Exposure time ::       Binalation         Species ::       Rat         Effective dose ::       Rat         Effective dose ::       Rat         Effective dose ::       Rat         Effective dose ::       Ata         Specific symptoms in animal studies       The preparation/mixture itself.         Carcian available on the preparation/mixture itself.       Carcianceolective function function         Dividication of human carcinogenicity.       Ata         Other information       No indications of human reproducity exist. <t< td=""><td>Acute inhalation toxicity         Parameter ::       LCS0 (ETIV ACETATE; CAS No.: 141-78-6.)         Species ::       Rat         Effective dose ::       S myll         Equoure trute ::       Rat         Effective dose ::       S myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Metho::       Occol 043         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       1 / malation         Metho::       Occol 043         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure total available on the preparation/mixture itself.       Inter are no data available on the preparation/mixture itself.         Other information       No indications of human germ culturagenicity exist.         Outre information       No indications of</td><td>Species :</td><td></td><td>Rabbit</td><td></td></t<>	Acute inhalation toxicity         Parameter ::       LCS0 (ETIV ACETATE; CAS No.: 141-78-6.)         Species ::       Rat         Effective dose ::       S myll         Equoure trute ::       Rat         Effective dose ::       S myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       Inhalation         Metho::       Occol 043         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure trute ::       1 / malation         Metho::       Occol 043         Species ::       Rat         Effective dose ::       2.3 / myll         Equoure total available on the preparation/mixture itself.       Inter are no data available on the preparation/mixture itself.         Other information       No indications of human germ culturagenicity exist.         Outre information       No indications of	Species :		Rabbit	
Parameters       C.GO (C FIVAL ACETATE ; CAS No. : 141-78-6 )         Species :       Rat         Effective close :       S mg/l         Exposure time :       B h         Parameter :       C.GO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Effective close :       C.GO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Breameter :       L CGO (C MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Species :       Rat         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO (L MUTYL ACETATE ; CAS No. : 123-86-4 )         Breameter :       L CGO AU <td>Parameter ::       CS0 (ETMVA ACETATE ; CAS No. : 141-78-6.)         Exposure route ::       Inhalation         Species ::       Se mg()         Exposure time ::       S h         Parameter ::       CS0 (M=UTVA ACETATE ; CAS No. : 123-86.4.)         Exposure route ::       Inhalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure route ::       Methalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure time ::       4 h         Method ::       OECD 403         Soffictoryonptoms in animal studies         Area en odata available on the preparation/mixture itself.         Arrita and corrosive effects         Assemut/classification         Repeated exposure may cause skin dryness or cracking.         Area re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         No indications of human carcinogenicity.         Carcinogenicity         There are no data available on the preparation/mixture itself.         No indications of human reprodu</td> <td>Effective dose :</td> <td></td> <td>&gt; 5000 mg/kg</td> <td></td>	Parameter ::       CS0 (ETMVA ACETATE ; CAS No. : 141-78-6.)         Exposure route ::       Inhalation         Species ::       Se mg()         Exposure time ::       S h         Parameter ::       CS0 (M=UTVA ACETATE ; CAS No. : 123-86.4.)         Exposure route ::       Inhalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure route ::       Methalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure time ::       4 h         Method ::       OECD 403         Soffictoryonptoms in animal studies         Area en odata available on the preparation/mixture itself.         Arrita and corrosive effects         Assemut/classification         Repeated exposure may cause skin dryness or cracking.         Area re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         No indications of human carcinogenicity.         Carcinogenicity         There are no data available on the preparation/mixture itself.         No indications of human reprodu	Effective dose :		> 5000 mg/kg	
Parameter:       LCS0 (ETML ACETATE; CAS No.: 141-78-6 )         Species:       Rat         Effective dose:       Sp mg/l         Exposure time:       B h         Parameter:       LCS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Bereare:       CAS No.: 123-86-4 )         Bereare:       OECO 403         Species:       Rat         Effective dose:       CS0 (I-MUTYL ACETATE; CAS No.: 123-86-4 )         Bereare:       CAS No.: 123-86-4 )         Bereare:       CAS No.: 123-86-4 )         Bereare:       Contranse         Micitation of human acarinogenicity:       CHCI	Parameter ::       CS0 (ETMVA ACETATE ; CAS No. : 141-78-6.)         Exposure route ::       Inhalation         Species ::       Se mg()         Exposure time ::       S h         Parameter ::       CS0 (M=UTVA ACETATE ; CAS No. : 123-86.4.)         Exposure route ::       Inhalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure route ::       Methalation         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure time ::       4 h         Method ::       OECD 403         Soffictoryonptoms in animal studies         Area en odata available on the preparation/mixture itself.         Arrita and corrosive effects         Assemut/classification         Repeated exposure may cause skin dryness or cracking.         Area re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         Arcinogenicity         The rea re no data available on the preparation/mixture itself.         No indications of human carcinogenicity.         Carcinogenicity         There are no data available on the preparation/mixture itself.         No indications of human reprodu	Acute inhalation t	oxicity		
Exposure route:       Inheliation         Species:       Rat         Exposure time:       B h         Parameter:       ICSO (N-BUTYL ACETATE; CAS No. : 123-86-4)         Exposure route:       Inhalation         Species:       Rat         Effective dose:       23,4 mg/l         Species:       Rat         Effective dose:       23,4 mg/l         Method:       OECD 403 <b>Species:</b> Rat         Effective dose:       0200 403 <b>Species:</b> Rat         Betted exposure may cause skin dryness or cracking. <b>Specied: Anne Assessment/classification</b> Researce         Tere are no data available on the preparation/mixture itself. <b>Chroinforgeoinfil</b> Tere are no data available on the preparation/mixture itself. <b>Chroinforgeoinfil</b> There are no data available on the preparation/mixture itself. <b>Other information</b> No indication of human carcinogenicity. <b>Mutho: Cotiongenicity Mutagenicity</b> exist. <b>Mereidenist in history do not meet the criteria for classification as CMR category 1A or 1B according to CLF         <b>Superidenist in history do not not meet the criteria for classification as CMR category 1A or 1B according to CLF     </b></b>	Exposure route:       Rat         Effective dose :       S8 mg/l         Exposure time :       8 h         Parameter :       LCSO (N+BUTYL ACETATE ; CAS No. : 123-86-4 :)         Exposure route :       Inhalation         Species :       Rat         Effective dose :       23,4 mg/l         Exposure route :       An mg/l         Method :       OECD 403 <b>Species :</b> Rat         Effective dose :       0ECD 403 <b>Species :</b> Rat         Barsessment / Classification       0ECD 403 <b>Species :</b> Rat do source reparation/mixture itself. <b>Charcianogenicity , mutagenicity and toxicity for reproduction</b> Tare are no data available on the preparation/mixture itself. <b>Other information</b> No indications of human carcinogenicity. <b>Decell Mossessment on CMR properties Otell Mossessment on CMR properties Derestin Information</b> <td< td=""><td></td><td>-</td><td>LC50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )</td><td></td></td<>		-	LC50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )	
Species       Rat         Effective dose       Species         Parameter       LCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Exposure route:       Mahalation         Species       Rat         Breameter       Species         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Species       Rat         Breameter       CCSG (I-NEUTVALCETATE; CAS No. : 123-86-4 )         Breameter       Species         Breame no data available on the preparation/mixture	Species       get of the set of the s	Exposure route :			
Effective dose:       SA mg/l         Exposure route:       Inhalation         Species:       Rat         Effective dose:       23,4 mg/l         Exposure route:       With a standard and and a standard and and and a standard and and and and and and and and and an	Effective dose:       SB mg/l         Exposure rune:       B h         Parameter ::       LCSO (N-BUTYL ACETATE; CAS No. : 123-86-4.)         Exposure rune ::       B h         Species ::       R at         Effective dose ::       23,4 mg/l         Exposure rune ::       A mg/l         Method ::       OECD 403         Species ::       R at         Effective dose ::       23,4 mg/l         Exposure rune ::       A mg/l         Method ::       OECD 403         Species ::       R at         Effective dose ::       23,4 mg/l         Exposure rune ::       A mg/l         Exposure rune ::       OECD 403         Species ::       R at         Barce at no data available on the preparation/mixture itself.       Species (Carcinogenicity, mutagenicity and toxicity for reproduction)         Carcinogenicity:       Method::       Species         Cher information       No indications of human egm call mutagenicity exist.         Reproductive toxicity       Bit       Bit         Molications of human reproductive toxicity exist.       Specification)       Bit         Molications of human reproductive toxicity exist.       Specification is not man reproductive toxicity exist.       Specification is n	•		Rat	
Exposure time:       % h         Parameter ::       LCS0 (NEUTYLACETATE; CAS No. : 123-86-4);         Species:       Rat         Effective dose:       2.34 mg/l         Exposure time:       4 h         Method:       OECD 403         Species:       Rat         Exposure time:       4 h         Method:       OECD 403         Specific symptoms in animal studies         There are no data available on the preparation/mixture itself. <b>Cheated dose toxicity (subacute, subchronic, chronic)</b> There are no data available on the preparation/mixture itself. <b>Cheated dose toxicity (subacute, subchronic, chronic)</b> There are no data available on the preparation/mixture itself. <b>Other information</b> No indication of human carinogenicity. <b>Carinogenicity</b> There are no data available on the preparation/mixture itself. <b>Other information</b> No indications of human reproductive toxicity exit. <b>Reproductive toxicity</b> There are no data available on the preparation/mixture itself. <b>Other information</b> No indications of human reproductive toxicity exit. <b>Paronotive toxicity</b> There are no data available on the preparation/mixture itself.	Exposure time ::       g h         Parameter ::       LCSO (N-HUDTLACETATE; CAS No.: 123-86-4);         Exposure route ::       Inhalation         Species ::       Rat         Erective dose ::       2.3, 4 mg/l         Exposure time ::       4 h         Method ::       OECD 403         Sectific symptoms in animal studies         There are no data available on the preparation/mixture itself.         Initianal Corrosive effects         Assemut/Classification         Repeated exposure may cause skin dryness or cracking.         Sentifisation         There are no data available on the preparation/mixture itself.         Charced dose toxicity (subacute, subchronic, chronic)         Tare are no data available on the preparation/mixture itself.         Other information         No indication of human carcinogenicity.         Gern cell mutagenicity         There are no data available on the preparation/mixture itself.         No indications of human carcinogenicity.         Gern information         No indications of human carcinogenicity exist.         Correal assessment on CMR properties         Char information         No indications of human reproductive toxicity exist.         Oreal Assessment on CMR properties         SectTION 2.1 (c	•			
Parimeter :       LCS0 (N-BUTYL ACETATE; CAS No. : 123-86-4):         Exposure true :       A h         Method :       23,4 mg/l         Exposure true :       4 h         Method :       OECO 403 <b>Specific symptoms in animal studies</b> Even on data available on the preparation/mixture itself. <b>Assessment/classification</b> Resetted exposure may cause skin dryness or cracking. <b>Sensitisation</b> There are no data available on the preparation/mixture itself. <b>Chef efects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity</b> There are no data available on the preparation/mixture itself. <b>Other information</b> Mication of human carcinogenicity. <b>Care call mutagenicity Mication of human carcinogenicity</b> exit. <b>Other information</b> Mication of human agrem cell mutagenicity exit. <b>Other information</b> To indications of human agrem cell mutagenicity exit. <b>Other information</b> To indications of human reproductive toxicity exit. <b>Other information</b> To indications of human reproductive toxicity exit. <b>Other information</b> SetTION 2.1 (classification).	Parimeter :       LCS0 (N-BUTYL ACETATE ; CAS No. : 123-86-4 )         Exposure router :       A h         Method :       23,4 mg/l         Exposure time :       A h         Method :       OECD 403 <b>Specific symptoms in animal studies Assessment/classification</b> Repeated exposure may cause skin dryness or cracking. <b>Sensitisation</b> Repeated exposure may cause skin dryness or cracking. <b>Sensitisation</b> There are no data available on the preparation/mixture itself. <b>CMC effects (carcinogenicity, mutagenicity and toxicity for reproduction) Carcinogenicity</b> There are no data available on the preparation/mixture itself. <b>Other information</b> Ne rear on data available on the preparation/mixture itself. <b>Other information</b> No indication of human carcinogenicity. <b>Gern cell mutagenicity</b> There are no data available on the preparation/mixture itself.         No indications of human agern cell mutagenicity exist. <b>Other information</b> No indications of human agern cell mutagenicity exist. <b>Other information</b> No indications of human agern cell mutagenicity exist. <b>Other information</b> Sec SC			5.	
Exposure route ::       Rat         Species ::       Rat         Effective dose ::       2.3,4 mg/l         Exposure time ::       4 h         Method ::       OCC0 403         Specific symptoms in animal studies         There are no data available on the preparation/mixture itself.         Tritant and corrosive effects         Sessment/classification         Repeated exposure may cause skin dryness or cracking.         Sensitisation         Repeated dose toxicity (subacute, subchronic, chronic).         There are no data available on the preparation/mixture itself.         Gefects (carcinogenicity, mutagenicity and toxicity for reproduction)         Carinogenicity         There are no data available on the preparation/mixture itself.         Orient information         No indication of human carcinogenicity.         Gen cell mutagenicity         Method in formation         No indications of human genoductive toxicity exist.         Operal Assessment on CMR properties         Cation of human reproductive toxicity exist.         Operal Assessment on CMR properties         The information         No indications of human reproductive toxicity exist.         Other information         See SECTION 2.1 (classification).         Ses	Exposure route ::       Rat         Species ::       Rat         Effective dose ::       23,4 mg/l         Exposure time ::       4 h         Method ::       OECD 403         Specific symptoms in animal studies         There are no data available on the preparation/mixture itself.         Sessment/classification         Repeated exposure may cause skin dryness or cracking.         Sensitisation         Repeated exposure may cause skin dryness or cracking.         Generation available on the preparation/mixture itself.         Checated dose toxicity (subacute, subchronic, chronic)         There are no data available on the preparation/mixture itself.         Offects (carcinogenicity, mutagenicity and toxicity for reproduction)         Carcinogenicity         There are no data available on the preparation/mixture itself.         Other information         No indication of human carcinogenicity.         Gene cell mutagenicity exist.         Pare are no data available on the preparation/mixture itself.         Other information         No indications of human reproductive toxicity exist.         Ourcall Assessment on CMR properties         The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to C         Set ECTION 2.1 (classification).     <	•			
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Trade name :		in NanoTOP		
Revision date : Print date :	30.01.2019 13.02.2019		Version (Revision) :	4.0.2 (4.0.)
Aquatic toxicity				
Aquatic toxicity Chronic (long-tern		<b>t</b> v		
Parameter :		•	.0, n-alkanes, isoalkanes, cyclics, < 2	2% aromatics · CA
		No. : (64742-49-0) )		in a character , ch
Species :		Fish		
Effective dose :		> 0,1 - 1 mg/l		
Parameter :		NOEC ( Hydrocarbons, C9-C1 No. : (64742-48-9) )	1, n-alkanes, isoalkanes, cyclics, <2	2% aromatics ; C4
Species :		Fish		
Effective dose :		> 0,1 - 1 mg/l		
Chronic (long-tern	n) daphnia t			
Parameter :		NOEC ( ETHYL ACETATE ; C/	45 No. : 141-/8-6 )	
Species : Effective dose :		Daphnia 2,4 mg/l		
Exposure time :		2,4 mg/i 21 d		
Parameter :			.0, n-alkanes, isoalkanes, cyclics, < 2	2% aromatics ; CA
Species :		Daphnia		
Effective dose :		> 0,1 - 1 mg/l		
Parameter :		NOEC (Hydrocarbons, C9-C1	1, n-alkanes, isoalkanes, cyclics, < 2	2% aromatics ; CA
		No.: (64742-48-9))		
Species :		Daphnia		
Effective dose :		> 0,1 - 1 mg/l		
Acute (short-term	) algae toxic	-		
Parameter :		EC50 ( ETHYL ACETATE ; CA	S No. : 141-78-6 )	
Species :		Daphnia		
Effective dose : Exposure time :		717 mg/l 48 h		
Parameter :		EC50 ( N-BUTYL ACETATE ;	CAS No. : 123-86-4 )	
Species :		Daphnia		
Effective dose :		44 mg/l		
Exposure time :		48 h		
Parameter :		EC50 ( Hydrocarbons, C9-C1 No. : (64742-49-0) )	0, n-alkanes, isoalkanes, cyclics, < 2	% aromatics ; CA
Species :		Daphnia		
Effective dose :		> 10 - 100 mg/l	1	0/
Parameter :		No. : (64742-48-9) )	1, n-alkanes, isoalkanes, cyclics, < 2	% aromatics ; CA
Species :		Daphnia > 1000 mg/l		
Effective dose : Exposure time :		> 1000 mg/i 48 h		
Method :		OECD 202		
Chronic (long-tern	n) algae toxi			
Parameter :	,	NOEC ( ETHYL ACETATE ; CA	AS No. : 141-78-6 )	
Species :		Algae		
Effective dose :		> 100 mg/l		
Exposure time :		72 h		
Method :	_	OECD 201		
Effects in sewage				
		ng effluent treatment.		
2.2 Persistence and	degradabi	ility		
There are no data ava <b>Biodegradation</b>		preparation/mixture itself.		
-		preparation/mixture itself.		
2.3 Bioaccumulative	potential			
Thora are no data ava	ilable on the r	preparation/mixture itself.		

Safety Data She	et			( EN / D
ccording to Regulat	ion (EC) No	. 1907/2006 (REAC	CH)	
<b>Frade name :</b> Revision date :	30.01.2019	n NanoTOP	Version (Revision) :	4.0.2 (4.0.1)
rint date :	13.02.2019			
2.4 Mobility in soil				
There are no data ava 2.5 Results of PBT a	•	eparation/mixture itself.		
			according to REACH, annex XIII.	
2.6 Other adverse ef				
2.7 Additional ecoto		eparation/mixture itself.		
Additional informat	•			
The product has not	been tested.			
ECTION 13: Disposa	l considera	tions		
3.1 Waste treatment	t methods			
Dispose according to I	egislation.			
Waste disposal accord Product/Packag		2008/98/EC, covering wast	e and dangerous waste.	
		s according to EWC/AV	I	
Waste code prod		0.4*		
Waste code (EWC, <b>Waste code pack</b> a	,	U4*		
Waste code packa				
Waste treatment of	•			
29/35 - Do not emp waste disposal com		lispose of this material and	its container in a safe way. Delivery	to an approved
Appropriate disp		•		
			n be re-used following proper cleanir	ng. Packing which
cannot be properly 3.2 Additional inform		be disposed of.		
		the most common uses fo	r this material and may not reflect co	ontaminants
resulting from actual u			· · · · · · · · · · · · · · · · · · ·	
ECTION 14: Transpo	ort informat	tion		
4.1 UN number				
UN 1993				
4.2 UN proper shipp	ing name			
Land transport (AD				
Sea transport (IMD	-	NTINE SUBSTITUTE · ETHYL	ACEIAIE)	
		NTINE SUBSTITUTE · ETHYL	ACETATE )	
Air transport (ICAO				
4.3 Transport hazard		NTINE SUBSTITUTE · ETHYL	ACETATE )	
Land transport (AD	• •			
Class(es) :	-	3		
Classification code		F1		
Hazard identification No.) :		33		
Tunnel restriction o		D/E		
Special provisions : Hazard label(s) :		640D · LQ 1 I · E 2 3		
Sea transport (IMD	G)	5		
Class(es) :		3		
		Page : 10 / 13	3	
		raye . 10 / 13	,	( EN / D

(EN/D)

Trade name : Revision date : Print date :	Lithofin 30.01.2019 13.02.2019	NanoTOP	Version (Revision) :	4.0.2 (4.0.1)
EmS-No. : Special provisions Hazard label(s) :		F-E / <u>S-E</u> LQ 1 I · E 2 3		
Air transport (ICAC Class(es) : Special provisions Hazard label(s) : 4.4 <b>Packing group</b>		3 E 2 3		
<ul> <li>14.5 Environmental h Land transport (AD Sea transport (IMD Air transport (ICAC</li> <li>14.6 Special precauti None</li> <li>14.7 Transport in bul not required.</li> </ul>	R/RID): No G): No D-TI/IATA-DGR ONS for user		arpol and the IBC Code	
SECTION 15: Regula	tory informat	ion		
mixture	nd environme	ental regulations	/legislation specific for the	e substance o
<ul> <li>mixture</li> <li>EU legislation</li> <li>REGULATION (EC) N (REACH)</li> <li>REGULATION (EC) N Directive 2008/98/E4</li> <li>EN 2:1992 (DIN EN</li> <li>Authorisations an</li> <li>Restrictions on u</li> <li>Use restriction act</li> <li>Restrictions of or</li> <li>Observe restrictio</li> <li>Observe restriction</li> <li>Observe employm mothers.</li> <li>Other regulations</li> <li>Directive 98/24/EC</li> <li>chemical agents at</li> <li>REGULATION (EU)</li> <li>import of hazardou</li> <li>REGULATION (EU)</li> </ul>	lo 1907/2006 conce lo 1272/2008 on cl 2:2005-01) <b>d/or restrictions</b> se cording to REACH a ccupation ns to employment ent restrictions und (EU) of 7 April 1998 on work. (Directive 20 No 649/2012 OF T s chemicals [PIC-R No 98/2013 on the	erning the Registration assification, labelling a Parliament and of the <b>on use</b> annex XVII, no. : None for juvenils according der the Maternity Prote the protection of the H 000/39/EC, Directive 2 HE EUROPEAN PARLI/ egulation] e marketing and use of	A Evaluation, Authorisation and Restrict and packaging of substances and mixtu Council on waste (2000/532/EC) and handled according to order. The to the 'juvenile work protection guideling action Directive (92/85/EEC) for expect and the and safety of workers from the 006/15/EC, Directive 2009/161/EC) AMENT AND OF THE COUNCIL concern a explosives precursors: Not applicable and to the depletion of the ozone	tion of Chemicals res (clp) ne' (94/33/EC). tant or nursing risks related to ning the export and
<ul> <li>mixture</li> <li>EU legislation</li> <li>REGULATION (EC) N (REACH)</li> <li>REGULATION (EC) N Directive 2008/98/E4</li> <li>EN 2:1992 (DIN EN</li> <li>Authorisations an</li> <li>Restrictions on u</li> <li>Use restriction act</li> <li>Restrictions of o</li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe employment</li> <li>mothers.</li> <li>Other regulations</li> <li>Directive 98/24/EC</li> <li>chemical agents at</li> <li>REGULATION (EU)</li> <li>import of hazardou</li> <li>REGULATION (EU)</li> <li>Not applicable.</li> <li>Contains the follor</li> <li>Regulation (EC)</li> <li>Not applicable.</li> </ul>	lo 1907/2006 conce lo 1272/2008 on cl C of the European l 2:2005-01) <b>d/or restrictions</b> se cording to REACH a ccupation ns to employment ent restrictions und <b>(EU)</b> of 7 April 1998 on work. (Directive 20 No 649/2012 OF T s chemicals [PIC-R No 98/2013 on the No 98/2013 on the No 1005/2009 of wing substances the No 850/2004 [PC	erning the Registration assification, labelling a Parliament and of the on use annex XVII, no. : None for juvenils according of der the Maternity Prote the protection of the H 200/39/EC, Directive 2 THE EUROPEAN PARLIA egulation] e marketing and use of on substances that H at deplete the ozone I DP-Regulation]	a, Evaluation, Authorisation and Restrict and packaging of substances and mixtu Council on waste (2000/532/EC) a, if handled according to order. to the 'juvenile work protection guideli ection Directive (92/85/EEC) for expect health and safety of workers from the 006/15/EC, Directive 2009/161/EC) AMENT AND OF THE COUNCIL concerr explosives precursors: Not applicable ead to the depletion of the ozone	ction of Chemicals ures (clp) ne' (94/33/EC). tant or nursing risks related to ning the export an
<ul> <li><b>mixture</b></li> <li><b>EU legislation</b></li> <li>REGULATION (EC) N (REACH)</li> <li>REGULATION (EC) N Directive 2008/98/E4</li> <li>EN 2:1992 (DIN EN</li> <li><b>Authorisations an</b></li> <li><b>Restrictions on u</b></li> <li>Use restriction act</li> <li><b>Restrictions of o</b></li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe employment</li> <li>mothers.</li> <li><b>Other regulations</b></li> <li>Directive 98/24/EC</li> <li>chemical agents at</li> <li>REGULATION (EU)</li> <li>import of hazardou</li> <li>REGULATION (EU)</li> <li>import of hazardou</li> <li>REGULATION (EU)</li> <li>Not applicable.</li> <li>Contains the follor</li> <li><b>Regulation (EC)</b></li> <li>Not applicable.</li> <li>Name of the persisi</li> <li><b>National regulation</b></li> <li>Observe in addition</li> <li>Germany:</li> <li>TRGS 400 (Risk asset)</li> </ul>	lo 1907/2006 conce lo 1272/2008 on cl C of the European l 2:2005-01) <b>d/or restrictions</b> se cording to REACH a ccupation ns to employment ent restrictions und <b>(EU)</b> of 7 April 1998 on work. (Directive 20 No 649/2012 OF T s chemicals [PIC-R No 98/2013 on the No 98/2013 on the No 1005/2009 of wing substances the No 850/2004 [PC] stent organic pollu any national regula	erning the Registration assification, labelling a Parliament and of the on use annex XVII, no. : None for juvenils according der the Maternity Prote the protection of the H 200/39/EC, Directive 2 THE EUROPEAN PARLIA egulation] e marketing and use of on substances that I pat deplete the ozone II <b>DP-Regulation]</b> tant (POP): -	a, Evaluation, Authorisation and Restrict and packaging of substances and mixtu Council on waste (2000/532/EC) a, if handled according to order. to the 'juvenile work protection guideli ection Directive (92/85/EEC) for expect health and safety of workers from the 006/15/EC, Directive 2009/161/EC) AMENT AND OF THE COUNCIL concern explosives precursors: Not applicable ead to the depletion of the ozone ayer: -	tion of Chemicals res (clp) ne' (94/33/EC). tant or nursing risks related to ning the export and
<ul> <li><b>mixture</b></li> <li><b>EU legislation</b></li> <li>REGULATION (EC) N (REACH)</li> <li>REGULATION (EC) N Directive 2008/98/E4</li> <li>EN 2:1992 (DIN EN</li> <li><b>Authorisations an</b></li> <li><b>Restrictions on u</b></li> <li>Use restriction act</li> <li><b>Restrictions of o</b></li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe restriction</li> <li>Observe employment</li> <li>mothers.</li> <li><b>Other regulations</b></li> <li>Directive 98/24/EC</li> <li>chemical agents at</li> <li>REGULATION (EU)</li> <li>import of hazardou</li> <li>REGULATION (EU)</li> <li>Not applicable.</li> <li>Contains the follor</li> <li><b>Regulation (EC)</b></li> <li>Not applicable.</li> <li>Name of the persist</li> <li><b>National regulation</b></li> <li>Observe in addition</li> <li>Germany:</li> <li>TRGS 400 (Risk asset</li> <li>TRGS 500 (Protectiv)</li> <li>TRGS 510 (Storage of TRGS 555 (Working)</li> <li><b>Water hazard class</b></li> </ul>	lo 1907/2006 conce lo 1272/2008 on cl C of the European l 2:2005-01) d/or restrictions se cording to REACH a ccupation ns to employment ent restrictions und (EU) of 7 April 1998 on work. (Directive 20 No 649/2012 OF T s chemicals [PIC-R No 98/2013 on the No. 1005/2009 of wing substances th No 850/2004 [PC stent organic pollu is any national regula essment for activitie e measures) of hazardous subst instruction and info s (WGK)	erning the Registration assification, labelling a Parliament and of the on use annex XVII, no. : None for juvenils according der the Maternity Prote the protection of the H 200/39/EC, Directive 2 THE EUROPEAN PARLIA egulation] e marketing and use of on substances that H at deplete the ozone H <b>DP-Regulation]</b> tant (POP): - itions!	a, Evaluation, Authorisation and Restrict and packaging of substances and mixtu Council on waste (2000/532/EC) a, if handled according to order. to the 'juvenile work protection guideli ection Directive (92/85/EEC) for expect health and safety of workers from the 006/15/EC, Directive 2009/161/EC) AMENT AND OF THE COUNCIL concern explosives precursors: Not applicable ead to the depletion of the ozone ayer: -	tion of Chemicals res (clp) ne' (94/33/EC). tant or nursing risks related to ning the export and

Safety Data She according to Regulat	e <b>t</b> ion (EC) No. 1907/2006 (RE	ACH)	( EN / D )
Trade name :	Lithofin NanoTOP		
Revision date :	30.01.2019	Version (Revision) :	4.0.2 (4.0.1)
Print date :	13.02.2019		
Switzerland VOCV-Regulatic Maximum VOC c 15.2 Chemical safety	ontent (Switzerland): 79 Wt % acco	rding to VOCV	
SECTION 16: Other in	nformation		
16.1 Indication of cha	anges		
07. Hints on joint stor	age - Storage class		
16.2 Abbreviations an	nd acronyms		
ABC-Pulver	Extinguishing powder for fire class A	A, B and C	
ABEK-P1	combination filter		
ADR	European Agreement concerning the	e International Carriage of Dangerous G	oods by Road
AVV	Abfallverzeichnis-Verordnung (Wast	e Regulation)	
AWSV	Ordinance on facilities for the handl	ing of substances hazardous to water	
BGR	BG rules and regulations		
ca.	circa		
CAS	Chemical Abstract Service		
CLP	classification, labelling and packagir		
CMR	Carcinogen, mutagen or toxic for re		
DIN	German Institute for Standardization	1	
DNEL	Derived No-Effect Level		
	CER European Waste Catalogue		
EC50 / CE50	Effective Concentration 50%		
EG / EC / CE	European Community		
EN	European Standard		
EUH	supplemental hazard statement of t	•	
GefStoffV	Gefahrstoffverordnung (Hazardous	Substances Ordinance)	
GHS / SGH H-Sätze	Globally Harmonised System hazard statements		
IATA-DGR	International Air Transport Associati	on-Dangerous Goods Regulations	
IBC-Code	International Code for the Construct	ion and Equipment of Ships carrying Da	angerous
ICAO-TI	Chemicals in Bulk	tion Tachnical Instructions	
IMDG-Code	International Civil Aviation Organiza International Maritime Dangerous G		
INDG-Code ISO	International Organization for Stand		
LC50 / CL50	Lethal Concentration 50%		
LD50 / DL50	Lethal Dose 50%		
log P O/W	Partition coefficient n-octanol/water		
MARPOL		vention of Pollution from Ships (marine	pollution)
NOAEL (DSET)	No observed adverse effect level		. ,
NOEC (CSEO)	No observed effect concentration		
Nr.	Number		
OECD	Organisation for Economic Co-opera	tion and Development	
PBT	persistent, bioaccumulative and tox		
рН	Potentia hydrogenii		
PIC	prior informed consent		

	eet tion (EC) No. 1907/2006 (REA	( EN /
Trade name :	Lithofin NanoTOP	Version (Revision) : 4.0.2 (4.0.
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PNEC	Predicted No-Effect Concentration	
POP	Persistent organic pollutants	
P-Sätze	precautionary statements	
REACH	Registration, Evaluation, Authorisatio	
RID	International Carriage of Dangerous	Goods by Rail
STEL / LECT	short-term exposure limit	
TRGS	Technische Regeln für Gefahrstoffe (	Technical Rules for Hazardous Substances)
TWA / MPT	time-weighted average	
UN/ONU	United Nations	
VOC/COV/VOS/LZO	Volatile Organic Compound	
VOCV		olatile Organic Compounds (SR 814.018)
vPvB	very persistent and very bioaccumula	
WGK	Wassergefährdungsklasse (Water haz	zard class)
Regulation (EC) No 1: ECHA: Registered sub REACH Art. 59: -Canc (https://www.echa.eu <b>Classification fo</b> <b>No 1272/2008 [</b> Hazard statements fo Hazard statem	ostances (https://echa.europa.eu/informati didate List of substances of very high conce uropa.eu/candidate-list-table) <b>r mixtures and used evaluatio</b> <b>(CLP)</b> r physical hazards : On basis of test data. r health hazards : Calculation method. r environmental hazards : Calculation method. r environmental hazards : Calculation method. <b>EUH-phrases (Number and fu</b> Highly flammable liquid and vapour. Flammable liquid and vapour. May be fatal if swallowed and enters airwa Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting ef	on-on-chemicals/registered-substances) ern for Authorisation <b>n method according to regulation (EC</b> ) nod. I <b>ll text)</b> ays.
16.7 Additional inform	mation	
The above information descri		ife handling of the product named in this safety data