1.1 Product identifier

according to Regulation (EC) No. 1907/2006



ULTRASTAR FX-1604 Silver

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5.2	03.04.2024	10200002449	Date of first issue: 20.02.2014

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

:	ULTRASTAR FX-1604 Silver
:	052297QQ0
he s	substance or mixture and uses advised against
:	Colorant; Printing ink related material; Printing ink, Colouring agents, dyes
	: he s

1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH Guentersthal 4 91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address of person responsible for the SDS	: msds.eckart@altana.com

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 Eye irritation, Category 2 Specific target organ toxicity - single exposure, Category 3, Central nervous system H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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according to Regulation (EC) No. 1907/2006



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Haz	zard pictograms	:		
Sig	nal word	:	Danger	
Haz	zard statements	:	H225 H319 H336	Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.
	pplemental Hazard tements	:	EUH066	Repeated exposure may cause skin dryness or cracking.
Pre	cautionary statements	:	Prevention: P210 P233 P261 P280	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Avoid breathing mist or vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			Response: P303 + P361 + P3 P370 + P378	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

1-methoxy-2-propanol ethyl acetate acetone propan-2-ol

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Componente			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
ethanol	64-17-5	Flam. Liq. 2; H225	>= 25 - < 50

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		200-578-6 603-002-00-5	Eye Irrit. 2; H319	
1-met	thoxy-2-propanol	107-98-2 203-539-1 603-064-00-3 01-2119457435	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 25 - < 3
ethyl	acetate	141-78-6 205-500-4 607-022-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 10 - < 2
alumi	inium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243	-45	>= 1 - < 1
aceto	one	67-64-1 200-662-2 606-001-00-8 01-2119471330	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous	>= 1 - < 1
propa	an-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous -25 system)	>= 1 - < 1
cellul	ose nitrate	9004-70-0 603-037-00-6	Expl. 1.1; H201	>= 1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	:	Move the victim to fresh air.		
		Move out of dangerous area. Show this safety data sheet to the doctor in attendance.		
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical		

according to Regulation (EC) No. 1907/2006



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		advice		
In cas	e of skin contact	lf on s	kin, rinse w	ately with soap and plenty of water. ell with water. ove clothes.
In cas	e of eye contact	: Immec	iately flush	n eye(s) with plenty of water.
		Remov	e contact	n eye(s) with plenty of water. lenses. pen while rinsing.
lf swal	lowed	Do no Never	give anythi	tract clear. or alcoholic beverages. ing by mouth to an unconscious person. sist, call a physician.
4.2 Most ir	nportant symptoms a	nd effects,	both acute	e and delayed

Risks : Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Dry sand ABC powder Foam
Unsuitable extinguishing media	:	High volume water jet Carbon dioxide (CO2)
5.2 Special hazards arising from	the	substance or mixture
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

according to Regulation (EC) No. 1907/2006



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			sons in case of fire, cans should be stored losed containments.

SECTION 6: Accidental release measures

	 e equipment and emergency procedures Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2 Environmental precautions General advice :	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

	U 1
Methods for cleaning up	: Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
	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). Do not flush with water.

respective authorities.

If the product contaminates rivers and lakes or drains inform

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling :	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

according to Regulation (EC) No. 1907/2006



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	e on protection against d explosion	Prov Oper Disp regu : Do n Take (whic explo	ide sufficient n drum carefu ose of rinse v lations. ot spray on a necessary a ch might caus osion-proof e	ry measures against static discharges. air exchange and/or exhaust in work rooms. Illy as content may be under pressure. vater in accordance with local and national naked flame or any incandescent material. ction to avoid static electricity discharge se ignition of organic vapours). Use only quipment. Keep away from open flames, hot rces of ignition.
Hygie	ne measures			ot eat or drink. When using do not smoke. re breaks and at the end of workday.
7.2 Condit	ions for safe storage,	including	g any incomp	patibilities
	rements for storage and containers	with mea expl cont away	water liberate sures to prev osion-proof e ainers tightly	iners and apparatuses is essential. Reaction es extremely flammable gas (hydrogen) Take ent the build up of electrostatic charge. Use quipment. Store in original container. Keep closed in a cool, well-ventilated place. Keep es of ignition - No smoking. Keep container n use.
		vent care Obs mate	ilated place. (fully resealed erve label pre	p container tightly closed in a dry and well- Containers which are opened must be and kept upright to prevent leakage. ecautions. Electrical installations / working mply with the technological safety
	er information on ge conditions	: Prot	ect from hum	dity and water.
Advic	e on common storage	Do r Neve stora Keep	er allow produ age. 5 away from 0	acids. ther with oxidizing and self-igniting products. uct to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions.
	er information on ge stability	: No d	lecompositio	n if stored and applied as directed.
7.3 Specifi	ic end use(s)			

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		

according to Regulation (EC) No. 1907/2006



	Revision Da 03.04.2024			rint Date: 05.04.2024 ate of first issue: 20.02.	2014		
ethanc	bl	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40		
				ecific short-term expos xposure limit should be			
1-met	noxy-2-	107-98-2	STEL	150 ppm	2000/39/EC		
propa	nol			568 mg/m3			
		skin, Indicati		possibility of significar	it uptake through th		
			TWA	100 ppm 375 mg/m3	2000/39/EC		
		Further infor skin, Indicati		possibility of significar	it uptake through th		
		Skill, indicati	TWA	100 ppm 375 mg/m3	GB EH40		
				rbed through the skin. 7			
			are those for which th emic toxicity.	here are concerns that c	lermal absorption		
			STEL	150 ppm 560 mg/m3	GB EH40		
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption wi lead to systemic toxicity.					
ethyl a	ethyl acetate	141-78-6	TWA	200 ppm	GB EH40		
			STEL	734 mg/m3 400 ppm 1,468 mg/m3	GB EH40		
			STEL	400 ppm 1,468 mg/m3	2017/164/E		
		Further infor	mation: Indicative				
			TWA	200 ppm 734 mg/m3	2017/164/E		
	· · ·		mation: Indicative	40 4 0			
alumir (stabil	ium powder ised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40		
(TWA (Respirable fraction)	4 mg/m3	GB EH40		
			TWA (inhalable dust)	10 mg/m3	GB EH40		
		inhalable du when sampl MDHS14/4 (respirable, th substance h concentratio inhalable du any dust will levels. Some must comply	st are those fractions ing is undertaken in a General methods for s horacic and inhalable azardous to health ind n in air equal to or gro st or 4 mg.m-3 8-hou be subject to COSHI e dusts have been as y with the appropriate	oses of these limits, res of airborne dust which accordance with the mer sampling and gravimetr aerosols., The COSHH cludes dust of any kind eater than 10 mg.m-3 8 r TWA of respirable dus H if people are exposed signed specific WELs a limits., Most industrial The behaviour, depos	will be collected thods described in ic analysis or I definition of a when present at a B-hour TWA of st. This means that d to dust above the and exposure to the dusts contain		

according to Regulation (EC) No. 1907/2006



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sion	Revision Da 03.04.2024		OS Number: 2000002449	Print Date: 05.04.202 Date of first issue: 20	
		distinguishe and 'respira' material tha available for to the fracti definitions a contain cor should be o a figure three Further infor inhalable du when samp MDHS14/4 respirable, substance concentrationi inhalable du any dust wi levels. Som must comp particles of particular p response the distinguished and 'respiration material that available for to the fraction definitions a contain cor	es two size fracti able'., Inhalable of at enters the nos or deposition in the on that penetrate and explanatory nponents that has complied with., We e times the long TWA (Respind dust) ormation: For the ust are those fra- bling is undertake General method thoracic and inha hazardous to hea on in air equal to ust or 4 mg.m-3 Il be subject to 0 ne dusts have be ly with the appro- a wide range of article after entry nat it elicits, depo- es two size fracti able'., Inhalable of at enters the nos or deposition in the on that penetrate and explanatory nponents that has	end on the nature and siz ons for limit-setting purper dust approximates to the e and mouth during breat he respiratory tract. Resp es to the gas exchange re- material are given in MDI we their own assigned W /here no specific short-te- g-term exposure limit sho rable 4 mg/m3 purposes of these limits ctions of airborne dust when in accordance with the s for sampling and gravina alable aerosols., The COS alth includes dust of any lo or greater than 10 mg.m 8-hour TWA of respirable COSHH if people are expo- ten assigned specific WE priate limits., Most indust sizes. The behaviour, de v into the human respirato en assigned specific WE priate limits., Most indust sizes. The behaviour, de v into the human respirato to ns for limit-setting purper dust approximates to the e and mouth during breat he respiratory tract. Resp es to the gas exchange re- material are given in MDI we their own assigned W /here no specific short-te	oses termed 'inhalable' fraction of airborne thing and is therefore irable dust approximates egion of the lung. Fuller HS14/4., Where dusts 'EL, all the relevant limits erm exposure limit is listed uld be used. GB EH40 , respirable dust and hich will be collected e methods described in metric analysis or SHH definition of a kind when present at a h-3 8-hour TWA of e dust. This means that osed to dust above these trial dusts contain eposition and fate of any ory system, and the body e of the particle. HSE oses termed 'inhalable' fraction of airborne thing and is therefore irable dust approximates egion of the lung. Fuller HS14/4., Where dusts 'EL, all the relevant limits
acetor	ne	67-64-1	TWA	g-term exposure limit sho 500 ppm 1,210 mg/m3	2000/39/EC
		Further info	ormation: Indicat		
			TWA	500 ppm 1,210 mg/m3	GB EH40
			STEL	1,500 ppm 3,620 mg/m3	GB EH40
propa	n-2-ol	67-63-0	TWA	400 ppm 999 mg/m3	GB EH40
			STEL	500 ppm 1,250 mg/m3	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ethanol	Workers	Inhalation	Long-term systemic	950 mg/m3

according to Regulation (EC) No. 1907/2006



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		I	1	effects	
		Workers	Inhalation	Long-term local effects	1900 mg/m
		Workers	Dermal	Long-term systemic effects	343 mg/kg
		Consumers	Inhalation	Long-term systemic effects	114 mg/m3
		Consumers	Dermal	Long-term systemic effects	206 mg/kg
		Consumers	Oral	Long-term systemic effects	87 mg/kg
1-metl	hoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
		Workers	Inhalation	Acute local effects	553.5 mg/n
		Workers	Dermal	Long-term systemic effects	50.6 mg/kg
		Consumers	Inhalation	Long-term systemic effects	43.9 mg/m
		Consumers	Dermal	Long-term systemic effects	18.1 mg/kg
		Consumers	Oral	Long-term systemic effects	3.3 mg/kg
ethyl a	acetate	Workers	Inhalation	Long-term systemic effects	734 mg/m3
		Workers	Inhalation	Long-term local effects	734 mg/m3
		Workers	Inhalation	Acute systemic effects	1468 mg/m
		Workers	Inhalation	Acute local effects	1468 mg/m
		Workers	Dermal	Long-term systemic effects	63 mg/kg
		Workers	Dermal	Long-term local effects	63 mg/kg
		Consumers	Inhalation	Long-term systemic effects	367 mg/m3
		Consumers	Inhalation	Long-term local effects	367 mg/m3
		Consumers	Inhalation	Acute systemic effects	734 mg/m3
		Consumers	Inhalation	Acute local effects	734 mg/m3
		Consumers	Dermal	Long-term systemic effects	37 mg/kg
		Consumers	Oral	Long-term systemic effects	4.5 mg/kg
alumir (stabil	nium powder lised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
		Workers	Inhalation	Long-term local effects	3.72 mg/m3
		Consumers	Oral	Long-term systemic effects	3.95 mg/kg
acetor	ne	Workers	Inhalation	Long-term systemic	1210 mg/m

according to Regulation (EC) No. 1907/2006



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				effects		
-		Workers	Inhalation	Acute local effects	2420 mg/m3	
		Workers	Inhalation	Acute systemic effects	1210 mg/m3	
		Workers	Dermal	Long-term systemic effects	186 mg/kg	
		Consumers	Inhalation	Long-term systemic effects	200 mg/m3	
		Consumers	Dermal	Long-term systemic effects	62 mg/kg	
		Consumers	Oral	Long-term systemic effects	62 mg/kg	
propa	an-2-ol	Workers	Inhalation	Long-term systemic effects	500 mg/m3	
		Workers	Dermal	Long-term systemic effects	888 mg/kg	
		Consumers	Inhalation	Long-term systemic effects	89 mg/m3	
		Consumers	Dermal	Long-term systemic effects	319 mg/kg	
		Consumers	Oral	Long-term systemic effects	26 mg/kg	

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

Substance name	Environmental Compartment	Value
ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Intermittent water release	2.75 mg/l
	STP	580 mg/l
	Fresh water sediment	3.6 mg/kg
	Marine sediment	2.9 mg/kg
	Soil	0.63 mg/kg
	Secondary Poisoning	380 mg/kg
1-methoxy-2-propanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	STP	100 mg/l
	Fresh water sediment	41.6 mg/kg
	Marine sediment	4.17 mg/kg
	Soil	2.47 mg/kg
	periodical release	100 mg/l
ethyl acetate	Fresh water	0.24 mg/l
	Marine water	0.024 mg/l
	STP	650 mg/l
	Fresh water sediment	1.15 mg/kg
	Marine sediment	0.115 mg/kg
	Soil	0.148 mg/kg
	periodical release	1.65 mg/l
	Secondary Poisoning	200 mg/kg
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l

according to Regulation (EC) No. 1907/2006



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aceto	ne	Fresh water		10.6 mg/l
		Marine water		1.06 mg/l
		Fresh water s	sediment	30.4 mg/kg
		Marine sedim	ient	3.04 mg/kg
		STP		100 mg/l
		Soil		29.5 mg/kg
		periodical rel	ease	21 mg/l
propa	an-2-ol	Fresh water		140.9 mg/l
		Marine water		140.9 mg/l
		Fresh water s	sediment	552 mg/kg
		Marine sedim	ient	552 mg/kg
		STP		2251 mg/l
		Soil		28 mg/kg

8.2 Exposure controls

Personal protective equipme	ent	
Eye/face protection	:	Goggles Wear face-shield and protective suit for abnormal processing problems.
Hand protection Material	:	Solvent-resistant gloves (butyl-rubber)
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Choose body protection according to the amount and
Respiratory protection	:	concentration of the dangerous substance at the work place. Use suitable breathing protection if workplace concentration requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: liquid	
Colour	: silver	

according to Regulation (EC) No. 1907/2006



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Odo	ur	:	characteristic	
Odo	ur Threshold	:	No data available)
Melti	ing point/range	:	Not applicable	
Boili	ng point/boiling range	:	76 °C	
Flam	nmability	:	No data available	
	er explosion limit / Upper mability limit	:	No data available	3
	er explosion limit / Lower mability limit	:	No data available	
Flas	h point	:	-4 °C	
Auto	-ignition temperature	:	No data available)
Deco	omposition temperature	:	No data available)
pН		:	substance/mixtur	re is non-soluble (in water)
Visc	osity, kinematic	:	No data available)
Wate	bility(ies) er solubility bility in other solvents	:	insoluble No data available	9
	tion coefficient: n-	:	No data available)
	nol/water our pressure	:	No data available)
	or Pressure for Componen hanol	nts: :	59 hPa (20 °C)	
1-	methoxy-2-propanol	:	11.3 hPa (20 °C)
et	hyl acetate	:	98.4 hPa (20 °C)
ac	etone	:	240 hPa (20 °C)	
pr	opan-2-ol	:	44 hPa (20 °C)	
Rela	tive density	:	No data available)
Dens	sity	:	0.9 - 1.0 g/cm3	
Rela	tive vapour density	:	No data available	

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Pa	le characteristics article Size Distribution	: No data availa	ble
	information ata available		
SECTIO	N 10: Stability and re	activity	
10.1 Reac No de	tivity ecomposition if stored a	nd applied as directe	d.
	nical stability ecomposition if stored a	nd applied as directe	d.
	ibility of hazardous re dous reactions		cids and alkalis may release hydrogen.
		Stable under re	ecommended storage conditions.
		Vapours may f	orm explosive mixture with air.
10.4 Cond	litions to avoid		
Cond	itions to avoid	: Do not allow ev	vaporation to dryness.
		Heat, flames a	nd sparks.
10.5 Incor	npatible materials		
Mater	ials to avoid	: Acids Bases	

Oxidizing agents

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

ethanol:

Acute oral toxicity

: LD50 (Rat, male and female): 10,470 mg/kg Method: OECD Test Guideline 401

according to Regulation (EC) No. 1907/2006



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	Acute i	nhalation toxicity	:	LC50 (Rat, male a Exposure time: 4 Test atmosphere: Method: OECD Te	vapour
	1-meth	oxy-2-propanol :			
		oral toxicity	:	LD50 (Rat): 4,016	mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 25.8 Exposure time: 4 Test atmosphere:	h
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	ethyl a	cetate:			
	-	oral toxicity	:	(Rat): 5,620 mg/k	g
	Acute i	nhalation toxicity	:	LC50 (Rat): 56 mg Exposure time: 4 Test atmosphere:	h
	Acute o	lermal toxicity	:	LD50 (Rabbit): > 1	18,000 mg/kg
	alumin	ium powder (stabilise	ed):		
		nhalation toxicity	:	LC50 (Rat): > 5 m Exposure time: 4 Test atmosphere:	ĥ
	aceton	e:			
	Acute o	oral toxicity	:	LD50 (Rabbit): 4,7	700 - 5,800 mg/kg
				(Mouse): 3,000 m	ng/kg
				(Rat): 9,800 mg/k	g
	Acute i	nhalation toxicity	:	LC50 (Rat): 76 mg Exposure time: 4 Test atmosphere:	ĥ
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
	propan	-2-ol:			
	• •	oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg

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rsion	Revision Date: 03.04.2024	SDS Number: 102000002449	Print Date: 05.04.2024 Date of first issue: 20.02.2014
	corrosion/irritation	auga akin dhunaan a	rorocking
	ated exposure may c	ause skin uryness (or cracking.
<u>Produ</u>			
Rema	rks	: May cause	skin irritation in susceptible persons.
<u>Com</u> p	oonents:		
ethan	ol:		
Resul	t	: No skin irrit	ation
Rema	rks	: Based on a	vailable data, the classification criteria are not m
aceto	ne:		
Rema	rks		r prolonged contact with the mixture may cause natural fat from the skin resulting in desiccation
	us eye damage/eye es serious eye irritati		
Produ	uct:		
Rema	rks	: Eye irritatio	n
<u>Com</u> p	oonents:		
ethan	ol:		
Resul	t	: Eye irritatio	n
Rema	rks	: Based on a	vailable data, the classification criteria are not m
ethyl	acetate:		
Resul	t	: Eye irritatio	n
aceto	ne:		
Resul	t	: Eye irritatio	n
propa	ın-2-ol:		
Resul	t	: Eye irritatio	n
Respi	ratory or skin sens	itisation	
	sensitisation assified based on av	ailable information	
	ratory sensitisation		

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



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	cell mutagenicity assified based on av	ailable information.	
	n ogenicity assified based on av	ailable information.	
-	oductive toxicity assified based on av	ailable information.	
	- single exposure ause drowsiness or	dizziness.	
<u>Comp</u>	oonents:		
-	acetate: ssment	: May cause d	Irowsiness or dizziness.
aceto Asses	ne: ssment	: May cause d	rowsiness or dizziness.
	n -2-ol: ssment	: May cause d	lrowsiness or dizziness.
	- repeated exposur assified based on av		
-	ation toxicity assified based on av	ailable information.	
11.2 Infor	mation on other haz	ards	
Furth	er information		
<u>Prodı</u> Rema		tiredness, na Concentratio narcotic effe	of overexposure may be headache, dizziness, nusea and vomiting. ns substantially above the TLV value may cause cts. y degrease the skin.

12.1 Toxicity

Components:

ethyl acetate:

Toxicity to daphnia and other : (Daphnia (water flea)): 717 mg/l aquatic invertebrates

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	one: city to daphnia and other atic invertebrates	:	(Daphnia magna	(Water flea)): 21,600 mg/l			
	sistence and degradabi	lity					
	accumulative potential lata available						
	ility in soil lata available						
12.5 Res	ults of PBT and vPvB a	sse	ssment				
<u>Proc</u> Asse	luct: essment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			
No d	 12.6 Endocrine disrupting properties No data available 12.7 Other adverse effects 						
Proc							
Addi	itional ecological mation	:	No data available				
SECTIO	N 13: Disposal consi	der	ations				
Euro	pean Waste Catalogue	:	08 03 12 - waste	ink containing dangerous substances			
13.1 Was Prod	te treatment methods	:	Do not contamina chemical or used Send to a license	f waste into sewer. ite ponds, waterways or ditches with container. d waste management company. h local and national regulations.			
Cont	aminated packaging	:		used product.			

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SECTION 1	4: Transport infor	na	tion	
14.1 UN num	ber or ID number			
ADR		:	UN 1210	
IMDG		:	UN 1210	
ΙΑΤΑ		:	UN 1210	
14.2 UN prop	per shipping name			
ADR		:	PRINTING INK	
IMDG		:	PRINTING INK	
ΙΑΤΑ		:	Printing ink	
14.3 Transpo	ort hazard class(es)			
			Class	Subsidiary risks
ADR		:	3	
IMDG		:	3	
ΙΑΤΑ		:	3	
14.4 Packing	ı group			
Hazard I Labels	group ation Code dentification Number estriction code	:	II F1 33 3 (D/E)	
IMDG Packing Labels EmS Co		:	ll 3 F-E, S-D	
IATA (C a Packing aircraft)	argo) instruction (cargo	:	364	
	instruction (LQ) group	:	Y341 II 3	
Packing (passeng	assenger) instruction ger aircraft) instruction (LQ) group	:	353 Y341 II 3	
14.5 Environ	mental hazards			

ADR

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	nmentally hazardous	: no	
IMDG 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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3 ethanol (Number on list 3) 1-methoxy-2-propanol (Number on list 40, 3) ethyl acetate (Number on list 3) aluminium powder (stabilised) (Number on list 40) acetone (Number on list 3) propan-2-ol (Number on list 3)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer		Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	:	acetone
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors		
This product is regulated by Regulation (EU) 2019/1148: suspicious transactions, and significant disappearances a should be reported to the relevant national contact point.	and	acetone (ANNEX II) thefts

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15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements		
H201	:	Explosive; mass explosion hazard.
H225	÷	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H228	:	Flammable solid.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
EUH066	:	Repeated exposure may cause skin dryness or cracking.
Full text of other abbreviatio	ns	
Expl.	:	Explosives
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Flam. Sol.	:	Flammable solids
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first
		list of indicative occupational exposure limit values
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a
		fourth list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / TWA	:	Limit Value - eight hours
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - 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

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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 mixture:		Classification procedure:
Flam. Liq. 2	H225	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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