according to Regulation (EC) No. 1907/2006



ROTOSTAR UV 166 014 SILVER FLEXO INK

Version	Revision Date:	SDS Number:	Print Date: 05.12.2023
8.1	04.12.2023	102000028180	Date of first issue: 04.09.2017

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

1.1 Product identifier	
Trade name	: ROTOSTAR UV 166 014 SILVER FLEXO INK
Product code	: 023411U20M1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the	:	Colorant; Printing ink related material; Printing ink, Colouring
Substance/Mixture		agents, dyes

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)

Eye irritation, Category 2 Skin sensitisation, Category 1 Reproductive toxicity, Category 2 Long-term (chronic) aquatic hazard, Category 2

H319: Causes serious eye irritation.H317: May cause an allergic skin reaction.H361d: Suspected of damaging the unborn child.H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Ha	azard pictograms	:		!
Si	gnal word	:	Warning	V V
Ha	azard statements	:	H317 H319 H361d H411	May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.
Pr	ecautionary stateme	nts :	Prevention: P201 P261 P273 P280	Obtain special instructions before use. Avoid breathing mist or vapours. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			Response: P308 + P313	IF exposed or concerned: Get medical
			P391	advice/ attention. Collect spillage.

Hazardous components which must be listed on the label:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid Bisphenol A epoxy acrylate ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate 2-Propenoic acid, ester with C12-16-alkyl glycidyl ether Glycerol, propoxylated, esters with acrylic acid

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

CAS-No.	ClassificationREGUL	Concentration
EC-No.	ATION (EC) No	(% w/w)
Index-No.	1272/2008	
Registration number		
28961-43-5	Eye Irrit. 2; H319	>= 50 - <= 100
500-066-5	Skin Sens. 1; H317	
01-2119489900-30		
55818-57-0	Skin Sens. 1; H317	>= 10 - < 20
	EC-No. Index-No. Registration number 28961-43-5 500-066-5 01-2119489900-30	EC-No. ATION (EC) No Index-No. 1272/2008 Registration number 28961-43-5 500-066-5 Eye Irrit. 2; H319 01-2119489900-30 Skin Sens. 1; H317

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		500-130-2	Aquatic Chronic 2; H411	
	phenyl(2,4,6- hylbenzoyl)phosphinate	01-2119490020 84434-11-7 282-810-6		10 - < 2
alumi	nium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243		= 1 - < 10
	propyl-2,2- hyltrimethylene diisobutyrat	6846-50-0	Repr. 2; H361d >= Aquatic Chronic 3; H412	= 3 - < 1(
	penoic acid, ester with C12 kyl glycidyl ether			= 1 - < 1(
	erol, propoxylated, esters acrylic acid	52408-84-1 500-114-5	Eye Irrit. 2; H319 >= Skin Sens. 1; H317	= 1 - < 1(
2,6-di	i-tert-butyl-p-cresol	128-37-0 204-881-4	H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	0.25 - <
			M-Factor (Chronic aquatic toxicity): 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 atte Do not leave the victim unattended.	endance.
If inhaled	Remove to fresh air. If unconscious, place in recovery position and s advice. If symptoms persist, call a physician.	eek medical

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In case	e of skin contact	: Wash off im	mediately with soap and plenty of water.		
In case	e of eye contact	: Immediately	flush eye(s) with plenty of water.		
		Remove cor Keep eye wi	flush eye(s) with plenty of water. htact lenses. de open while rinsing. on persists, consult a specialist.		
If swallowed		Do not give Never give a If symptoms	atory tract clear. milk or alcoholic beverages. anything by mouth to an unconscious person. persist, call a physician. immediately to hospital.		
4.2 Most important symptoms and effects, both acute and delayed					
Risks		Causes seri	an allergic skin reaction. ous eye irritation. of damaging the unborn child.		

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)
		High volume water jet
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. Use extinguishing measures that are appropriate to local

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		circumstances	and the surrounding environment.
SECTION	N 6: Accidental rele	ease measures	
6.1 Perso	nal precautions, pro	tective equipment an	d emergency procedures
Personal precautions : Evacuate person Use personal prot		•	onnel to safe areas. protective equipment.
6.2 Enviro	onmental precaution	S	
Gene	ral advice	courses or the Prevent produc Prevent further	ct from entering drains. r leakage or spillage if safe to do so. contaminates rivers and lakes or drains inform
6.3 Metho	ods and material for o	containment and clea	aning up
Meth	ods for cleaning up	Soak up with ir	al handling equipment. hert absorbent material (e.g. sand, silica gel, iversal binder, sawdust).
		acid binder, un	nert absorbent material (e.g. sand, silica gel, iversal binder, sawdust). le, closed containers for disposal.

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	 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. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. 	
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.	

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Hygie	ene measures	:		ot eat or drink. When using do not smoke. ore breaks and at the end of workday.
7.2 Condi	tions for safe storage,	inc	luding any incom	patibilities
Requirements for storage areas and containers		:	with water liberat measures to preve explosion-proof e containers tightly away from source closed when not Keep container ti place. Containers resealed and kep	iners and apparatuses is essential. Reaction es extremely flammable gas (hydrogen) Take vent the build up of electrostatic charge. Use equipment. Store in original container. Keep closed in a cool, well-ventilated place. Keep es of ignition - No smoking. Keep container in use. ghtly closed in a dry and well-ventilated s which are opened must be carefully of upright to prevent leakage. Observe label ctrical installations / working materials must
				echnological safety standards.
	Further information on storage conditions		Protect from hur	hidity and water.
Advic	ce on common storage	:	Never allow prod storage. Keep away from	r acids. Ather with oxidizing and self-igniting products. Nuct to get in contact with water during oxidizing agents, strongly alkaline and terials in order to avoid exothermic reactions.
	er information on ge stability	:	No decompositio	n if stored and applied as directed.
7 3 Specif	fic end use(s)			

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
aluminium powder (stabilised)	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	
	Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a				

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ersion 1	Revision Dat 04.12.2023		Number: 000028180	Print Date: 05.12.2023 Date of first issue: 04.0	9.2017
		concentration inhalable dust any dust will b levels. Some particles of a particular part response that distinguishes and 'respirable material that e available for c to the fraction definitions and contain compo- should be cor	in air equal to o t or 4 mg.m-3 8- be subject to CO dusts have been with the appropri- wide range of siz- ticle after entry in t elicits, depend two size fraction e'., Inhalable dus enters the nose a deposition in the that penetrates d explanatory ma onents that have nplied with., Who	n includes dust of any kir r greater than 10 mg.m-3 nour TWA of respirable d SHH if people are expos assigned specific WELs ate limits., Most industria tes. The behaviour, depo- to the human respiratory d on the nature and size s for limit-setting purpose and mouth during breathing respiratory tract. Respirat to the gas exchange reg aterial are given in MDHS their own assigned WEL ere no specific short-term erm exposure limit should	8 8-hour TWA of ust. This means that ed to dust above these and exposure to these al dusts contain osition and fate of any v system, and the body of the particle. HSE es termed 'inhalable' action of airborne ng and is therefore able dust approximates ion of the lung. Fuller S14/4., Where dusts _, all the relevant limits n exposure limit is listed
		-	TWA (Respiral dust)	ble 4 mg/m3	GB EH40
	ort butul 5	inhalable dust when samplin MDHS14/4 G respirable, the substance has concentration inhalable dust any dust will b levels. Some must comply of particles of a particular part response that distinguishes and 'respirable material that e available for c to the fraction definitions and contain compo- should be con a figure three	t are those fracting is undertaken eneral methods pracic and inhala zardous to healt in air equal to o t or 4 mg.m-3 8- be subject to CO dusts have been with the appropri- wide range of siz- ticle after entry in t elicits, depend two size fraction e'., Inhalable dus enters the nose a deposition in the that penetrates d explanatory ma- onents that have mplied with., Who times the long-tr	ons of airborne dust which in accordance with the m for sampling and gravine ble aerosols., The COSH includes dust of any kin r greater than 10 mg.m-3 nour TWA of respirable d SHH if people are expose assigned specific WELs ate limits., Most industria ces. The behaviour, depo- to the human respiratory d on the nature and size s for limit-setting purpose at approximates to the fra and mouth during breathin respiratory tract. Respira to the gas exchange reg aterial are given in MDHS their own assigned WEI are no specific short-term arm exposure limit should	th will be collected nethods described in etric analysis or H definition of a and when present at a 8 8-hour TWA of ust. This means that ed to dust above these and exposure to the exposure and the particle. HSE and the particle the exposure and the particle to the exposure and the part
2,6-di-te cresol	ert-butyl-p-	128-37-0	TWA	10 mg/m3	GB EH40
				specific short-term expo m exposure limit should b	

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Propylidynetrimethan	Workers	Inhalation	Long-term systemic	16.2 mg/m3

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	oxylated, esters crylic acid			effects	
		Workers	Skin contact	Long-term systemic effects	0.8 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.9 mg/m3
		Consumers	Skin contact	Long-term systemic effects	0.48 mg/kg
		Consumers	Oral	Long-term systemic effects	1.39 mg/kg
Bisph acryla	enol A epoxy te	Workers	Inhalation	Long-term systemic effects	1.17 mg/m3
		Workers	Dermal	Long-term systemic effects	33 mg/kg
		Consumers	Inhalation	Long-term systemic effects	0.29 mg/m3
		Consumers	Dermal	Long-term systemic effects	16.67 mg/k
		Consumers	Oral	Long-term systemic effects	0.17 mg/kg
	ohenyl(2,4,6- hylbenzoyl)phos te	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg
•		Workers	Inhalation	Long-term systemic effects	5.88 mg/m3
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
dimet	propyl-2,2- hyltrimethylene utyrate	Workers	Skin contact	Long-term systemic effects	5.00 mg/kg
	·	Workers	Inhalation	Long-term systemic effects	17.62 mg/n
		Consumers	Ingestion	Long-term systemic effects	5.00 mg/kg
		Consumers	Skin contact	Long-term systemic effects	5.00 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.35 mg/m3
	rol, xylated, esters crylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/n
		Workers	Dermal	Long-term systemic effects	1.92 mg/kg
		Consumers	Inhalation	Long-term systemic effects	4.87 mg/m
		Consumers	Dermal	Long-term systemic effects	1.15 mg/kg

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		Consumers	Oral	Long-term systemic 1.39 mg/kg effects
	2,6-di-tert-butyl-p- cresol	Workers	Inhalatior	Long-term systemic 0.78 mg/m3 effects
		Workers	Dermal	Long-term systemic 0.5 mg/kg effects
		Consumers	Inhalatior	Long-term systemic 0.435 mg/m3 effects
		Consumers	Dermal	Long-term systemic 0.25 mg/kg effects
		Consumers	Oral	Long-term systemic 0.25 mg/kg effects

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

Substance name	Environmental Compartment	Value
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	Soil	0.00644 mg/kg
	Fresh water	0.00195 mg/l
	Fresh water sediment	0.038 mg/kg
	STP	10 mg/l
	Marine water	0.000195 mg/l
	Marine sediment	0.0038 mg/kg
	Intermittent Release	0.00195 mg/l
	Intermittent water release	0.0195 mg/l
Bisphenol A epoxy acrylate	Fresh water	0.025 mg/l
	Marine water	0.003 mg/l
	Intermittent Release	1 mg/l
	Fresh water sediment	8.96 mg/kg
	Marine sediment	0.896 mg/kg
	STP	10 mg/l
	Soil	1.78 mg/kg
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	Fresh water	0.014 mg/l
	Marine water	0.0014 mg/l
	Fresh water sediment	5.29 mg/kg
	Soil	1.05 mg/kg
	STP	3 mg/l
	Marine sediment	0.529 mg/kg
	oral (secondary poisoning)	83.3 mg/kg
Glycerol, propoxylated, esters with acrylic acid	Fresh water	0.0057 mg/l
	Marine water	0.00057 mg/l
	Fresh water sediment	0.0168 mg/kg
	Marine sediment	0.00168 mg/kg
	STP	10 mg/l
	Soil	0.0011 mg/kg

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2,6-0	di-tert-butyl-p-cresol		Fresh water		0.199 µg/l
			Marine water		0.02 µg/l
			STP		0.017 mg/l
			Fresh water se		0.0996 mg/kg
			Marine sedime	ent	0.00996 mg/kg
			Soil		0.054 mg/kg
			Secondary Po		8.33 mg/kg
			oral (secondar	y poisoning)	16.67 mg/kg
8.2 Expo	sure controls				
	onal protective equip				
·	face protection	ד V	Goggles Fightly fitting sat Vear face-shiel problems.	fety goggles d and protective suit for a	abnormal processing
	laterial	: 5	Solvent-resistan	t gloves (butyl-rubber)	
R	lemarks	c s tt F b c c F v s	concerning perm pecial workplace contact). The ex- he protective gl Please observe preakthrough tin ploves. Also tak conditions unde langer of cuts, a Recommended vashed after co	e information given by the heability and break throu ce conditions (mechanica act break through time of ove producer and this has the instructions regardin ne which are provided by e into consideration the abrasion, and the contact preventive skin protection ntact. The suitability for ssed with the producers	igh times, and of al strain, duration of can be obtained from as to be observed. In g permeability and y the supplier of the specific local sed, such as the ct time. on Skin should be a specific workplace
	and body protection	0 c : L	concentration of	ing otection according to the the dangerous substane athing protection if work	ce at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: liquid
Colour	: silver
Odour	: characteristic
Odour Threshold	: No data available

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Ν	Melting	point/range	:	Not applicable	
E	Boiling	point/boiling range	:	> 100 °C	
F	Flamma	ability	:	No data available	9
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
F	-lash p	oint	:	> 100 °C	
A	Auto-ig	nition temperature	:	No data available)
[Decom	position temperature	:	No data available)
þ	ъΗ		:	substance/mixtur	e is non-soluble (in water)
١	Viscosi	ty, kinematic	:	No data available	
١		ty(ies) solubility ty in other solvents	:	insoluble No data available	9
	Partition	n coefficient: n-	:	No data available)
		pressure	:	No data available	
١	Prop etho	Pressure for Componer ylidynetrimethanol, kylated, esters with ic acid	nts: :	0.0032 Pa (20 °	C)
	1-iso dime	propyl-2,2- thyltrimethylene	:	1.5 Pa (25 °C)	
	Glyce	butyrate erol, propoxylated, s with acrylic acid	:		C) Test Guideline 104
F	Relative	e density	:	No data available)
Γ	Density	,	:	1.1 g/cm3	
F	Relative	e vapour density	:	No data available)
F		characteristics icle Size Distribution	:	No data available	3

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Contact with acids and alkalis may release hydrogen.
		No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid	:	Do not allow evaporation to dryness.
---------------------	---	--------------------------------------

No data available

10.5 Incompatible materials

Materials 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:

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate:

Acute oral toxicity	:	(Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	(Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

aluminium powder (stabilised):

Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l
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		Exposure time: Test atmosphe	
1-isop	oropyl-2,2-dimethyl	trimethylene diisobut	yrate:
Acute	dermal toxicity		Rabbit): > 2,000 mg/kg) Test Guideline 402
2,6-di	-tert-butyl-p-cresol	:	
Acute	oral toxicity	: LD50 (Rat): > Method: OECD	5,000 mg/kg) Test Guideline 401
Acute	dermal toxicity	: LD50 (Rat): > Method: OECD	5,000 mg/kg) Test Guideline 402
_	corrosion/irritation assified based on av	vailable information.	
<u>Produ</u>	uct:		
Rema	irks	: May cause skir	n irritation and/or dermatitis.
Roma		-	
	oonents:		
<u>Comp</u>	oonents:	hylbenzoyl)phosphina	
<u>Comp</u>	<u>oonents:</u> phenyl(2,4,6-trimet		
<u>Comr</u> ethyl Rema	oonents: phenyl(2,4,6-trimet ^{Irks}	: May cause skir	ate: n irritation and/or dermatitis.
Comp ethyl Rema 1-isop Specie	oonents: phenyl(2,4,6-trimet urks oropyl-2,2-dimethyl es		ate: n irritation and/or dermatitis.
Comp ethyl Rema 1-isop Specie Expos	oonents: phenyl(2,4,6-trimet urks oropyl-2,2-dimethyl es sure time	: May cause skir trimethylene diisobut : Rabbit : 4 h	ate: n irritation and/or dermatitis. yrate:
Comp ethyl Rema 1-isop Specie Expos Metho	oonents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od	: May cause skin trimethylene diisobut : Rabbit : 4 h : OECD Test Gu	ate: n irritation and/or dermatitis. yrate: uideline 404
Comp ethyl Rema 1-isop Specie Expos	oonents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od	: May cause skir trimethylene diisobut : Rabbit : 4 h	ate: n irritation and/or dermatitis. yrate: uideline 404
Comp ethyl Rema 1-isop Specie Expos Metho Resul Serio	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye	: May cause skin trimethylene diisobut : Rabbit : 4 h : OECD Test Gu : No skin irritatio	ate: n irritation and/or dermatitis. yrate: uideline 404
Comp ethyl Rema 1-isop Specie Expos Metho Resul Serio	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t	: May cause skin trimethylene diisobut : Rabbit : 4 h : OECD Test Gu : No skin irritatio	ate: n irritation and/or dermatitis. yrate: uideline 404
Comp ethyl Rema 1-isop Specie Expos Metho Resul Serio	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati uct:	: May cause skin trimethylene diisobuty : Rabbit : 4 h : OECD Test Gu : No skin irritation e irritation on.	ate: n irritation and/or dermatitis. yrate: uideline 404
Comr ethyl Rema 1-isop Specie Expos Metho Resul Serio Cause <u>Produ</u> Rema	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati uct:	: May cause skin trimethylene diisobuty : Rabbit : 4 h : OECD Test Gu : No skin irritation e irritation on.	ate: n irritation and/or dermatitis. yrate: uideline 404 n
Comr ethyl Rema 1-isop Specie Expos Metho Resul Serio Cause Produ Rema	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati <u>uct:</u> urks	: May cause skin trimethylene diisobut : Rabbit : 4 h : OECD Test Gu : No skin irritation on. : May cause irre	ate: n irritation and/or dermatitis. yrate: uideline 404 n
Comr ethyl Rema 1-isop Specie Expos Metho Resul Serio Cause Produ Rema	ponents: phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati <u>uct:</u> urks ponents: ylidynetrimethanol,	: May cause skin trimethylene diisobuty : Rabbit : 4 h : OECD Test Gu : No skin irritation e irritation on.	ate: n irritation and/or dermatitis. yrate: uideline 404 m versible eye damage.
Comr ethyl Rema 1-isop Specie Expos Metho Resul Serio Cause Produ Rema Comr Propy Resul	ponents: phenyl(2,4,6-trimet arks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati <u>uct:</u> arks ponents: /lidynetrimethanol, t	: May cause skin trimethylene diisobuty : Rabbit : 4 h : OECD Test Gu : No skin irritation on. : May cause irre ethoxylated, esters w : Irritating to eye	ate: n irritation and/or dermatitis. yrate: uideline 404 in versible eye damage.
Comr ethyl Rema 1-isop Specie Expos Metho Resul Serio Cause Produ Rema Comr Propy Resul	phenyl(2,4,6-trimet phenyl(2,4,6-trimet urks propyl-2,2-dimethyl es sure time od t us eye damage/eye es serious eye irritati <u>uct:</u> urks ponents: /lidynetrimethanol, t phenyl(2,4,6-trimet	: May cause skin trimethylene diisobuty : Rabbit : 4 h : OECD Test Gu : No skin irritation on. : May cause irre ethoxylated, esters w : Irritating to eye hylbenzoyl)phosphina	ate: n irritation and/or dermatitis. yrate: uideline 404 in versible eye damage.

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-	propyl-2,2-dimethylt	rimeth	ylene diisobutyra	ate:
Speci Expos Metho Resul	sure time od		Rabbit 72 h OECD Test Guid No eye irritation	eline 405
Glyce	erol, propoxylated, e	sters v	vith acrylic acid:	
Resul	t	:	Eye irritation	
Resp	iratory or skin sensi	tisatio	n	
-	sensitisation cause an allergic skin	reactio	n.	
•	iratory sensitisation			
	assified based on ava	ailable i	nformation.	
<u>Produ</u> Rema		:	Causes sensitisa	tion.
<u>Com</u>	oonents:			
	lidynetrimethanol, e	ethoxy		-
Resul	t	:	May cause sensi	tisation by skin contact.
Rema	ırks	:	Causes sensitisa May cause sensi contact.	tion. tisation of susceptible persons by skin
Bispł	nenol A epoxy acryla	ate:		
Resul	t	:	May cause sensi	tisation by skin contact.
ethyl	phenyl(2,4,6-trimeth	ylbenz	oyl)phosphinate	:
Resul	t	:	May cause sensi	tisation by skin contact.
2-Pro	penoic acid, ester w	vith C12	2-16-alkyl glycid	yl ether:
Resul	t	:	The product is a	skin sensitiser, sub-category 1A.
•	erol, propoxylated, e	sters v	-	
Resul	τ	:	way cause sensi	tisation by skin contact.
	cell mutagenicity assified based on ava	ailable i	nformation.	
	nogenicity assified based on ava	ailable i	nformation.	

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	oductive toxicity ected of damaging the	e unborn child.	
<u>Com</u>	oonents:		
1-iso	propyl-2,2-dimethyl	trimethylene diisob	utyrate:
	oductive toxicity - ssment	: Some evider animal exper	nce of adverse effects on development, based on iments.
STO	- single exposure		
Not c	lassified based on av	ailable information.	
	- repeated exposu		
Not c	lassified based on av	ailable information.	
-	ation toxicity		
Not c	lassified based on av	ailable information.	
11.2 Infor	mation on other haz	ards	
Furth	er information		
Prod	uct:		
Rema	arks	: No data avai	lable

SECTION 12: Ecological information

12.1 Toxicity

Com	ponents:

Bisphenol A epoxy acrylate:

Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
ethyl phenyl(2,4,6-trimethylk Ecotoxicology Assessment	ben	zoyl)phosphinate:

Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
1-isopropyl-2,2-dimethyltrim	neth	nylene diisobutyrate:
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia (water flea)): 2.46 mg/l
Ecotoxicology Assessment		
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

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2,6-d	i-tert-butyl-p-cresol:						
	ctor (Short-term (acute) tic hazard)	: 1					
M-Fa	ctor (Long-term nic) aquatic hazard)	: 1					
Ecot	oxicology Assessment						
Acute	e aquatic toxicity	: Very toxic to aquatic life.					
Chro	nic aquatic toxicity	: Very toxic to aq	uatic life with long lasting effects.				
	istence and degradabil ata available	ity					
12.3 Bioa	ccumulative potential						
<u>Com</u>	ponents:						
Glyc	erol, propoxylated, este	ers with acrylic acid	I:				
	ion coefficient: n- nol/water	: log Pow: 2.52 (2 Method: OECD	23 °C) Test Guideline 107				
12.4 Mobi	ility in soil						
No da	ility in soil ata available Ilts of PBT and vPvB as	ssessment					
No da 1 2.5 Resu <u>Prod</u>	ata available Ilts of PBT and vPvB as	: This substance/ to be either pers	mixture contains no components considered sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of				
No da 12.5 Resu <u>Prod</u> Asse 12.6 Endo	ata available Ilts of PBT and vPvB as <u>uct:</u>	: This substance/ to be either pers very persistent 0.1% or higher.	sistent, bioaccumulative and toxic (PBT), or				
No da 12.5 Resu Prod Asse 12.6 Endo No da	ata available Ilts of PBT and vPvB as <u>uct:</u> ssment ocrine disrupting prope	: This substance/ to be either pers very persistent 0.1% or higher.	sistent, bioaccumulative and toxic (PBT), or				
No da 12.5 Resu Prod Asse 12.6 Endo No da	ata available Ilts of PBT and vPvB as <u>uct:</u> ssment Decrine disrupting prope ata available Pr adverse effects	: This substance/ to be either pers very persistent 0.1% or higher.	sistent, bioaccumulative and toxic (PBT), or				
No da 12.5 Resu Asse 12.6 Endo No da 12.7 Othe Addit	ata available Ilts of PBT and vPvB as <u>uct:</u> ssment Decrine disrupting prope ata available Pr adverse effects	 This substance, to be either pers very persistent a 0.1% or higher. rties An environment unprofessional Harmful to aqua 	and very bioaccumulative (vPvB) at levels of tal hazard cannot be excluded in the event of handling or disposal.				
No da 12.5 Resu Prod Asse 12.6 Endo No da 12.7 Othe <u>Prod</u> Addit inforr	ata available Ilts of PBT and vPvB as <u>uct:</u> ssment ocrine disrupting prope ata available or adverse effects <u>uct:</u> ional ecological	 This substance, to be either pers very persistent a 0.1% or higher. rties An environment unprofessional Harmful to aqua 	sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of tal hazard cannot be excluded in the event of handling or disposal. atic life.				
No da 12.5 Resu Prod Asse 12.6 Endo No da 12.7 Othe Prod Addit inforr <u>Com</u>	ata available Ilts of PBT and vPvB as <u>uct:</u> ssment ocrine disrupting prope ata available or adverse effects <u>uct:</u> ional ecological nation	 This substance/ to be either pers very persistent a 0.1% or higher. rties An environment unprofessional Harmful to aqua Toxic to aquatic 	sistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of tal hazard cannot be excluded in the event of handling or disposal. atic life. the with long lasting effects.				

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Glyo	cerol, propoxylated, est	ters	with acrylic acid:	
	Additional ecological : No data avai information			
SECTIO	N 13: Disposal consi	der	ations	
Euro	opean Waste Catalogue	:	08 03 12 - waste	ink containing dangerous substances
13.1 Was	ste treatment methods			
Proc	duct	:	courses or the so Do not contamina chemical or used	te ponds, waterways or ditches with
Con	taminated packaging	:	Empty remaining Dispose of as un Do not re-use em	used product.

SECTION 14: Transport information

14.1 UN number or ID number				
ADR	:	UN 3082		
IMDG	:	UN 3082		
ΙΑΤΑ	:	UN 3082		
14.2 UN proper shipping name				
ADR	:	ENVIRONMENTALLY N.O.S. (Bisphenol A Epoxy r	Y HAZARDOUS SUBSTANCE, LIQUID, esin)	
IMDG	:	ENVIRONMENTALL` N.O.S. (Bisphenol A Epoxy r	Y HAZARDOUS SUBSTANCE, LIQUID, esin)	
ΙΑΤΑ	:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin)		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADR	:	9		
IMDG	:	9		
ΙΑΤΑ	:	9		

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14.4 Packing group

ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III M6 90 9 (-)
IMDG Packing group Labels EmS Code		III 9 F-A, S-F
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	Y964 III
IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels	: : : :	964 Y964 III 9
14.5 Environmental hazards		
ADR Environmentally hazardous	:	yes

IMDG
Marine pollutant

14.6 Special precautions for user

Remarks

 For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

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

: yes

Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

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 Propylidynetrimethanol, ethoxylated, esters with acrylic acid (Number on list 3) Bisphenol A epoxy acrylate (Number on list 3) ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate (Number on list 3) aluminium powder (stabilised) (Number on list 40) 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (Number on list 3) Glycerol, propoxylated, esters with acrylic acid (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
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H228	Flammable solid.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Full text of other abbreviations

Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Irrit.	:	Eye irritation
Flam. Sol.	:	Flammable solids
Repr.	:	Reproductive toxicity
Skin Sens.	:	Skin sensitisation
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA 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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response: GHS - Globally Harmonized System: GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern: TCSI - Taiwan Chemical Substance Inventory: TECI - Thailand Existing Chemicals Inventory: TRGS - Technical Rule for Hazardous Substances: TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixt	Classification procedure:	
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
Aquatic Chronic 2	H411	Calculation method



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