according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

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

1.1 Product identifier

Trade name : ROTOSTAR UV FX 68-41002 Shrink Silver

Product code : 053145U20

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)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1

Skin sensitisation, Category 1

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

Carcinogenicity, Category 2

H351: Suspected of causing cancer.

Long-term (chronic) aguatic hazard, H411: Toxic to aquatic life with long lasting effects.

Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

Hazard pictograms :









Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.
P261 Avoid breathing mist or vapours.
P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

P391 Collect spillage.

Hazardous components which must be listed on the label:

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate 2-hydroxy-3-phenoxypropyl acrylate ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Glycerol, propoxylated, esters with acrylic acid 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate Propylidynetrimethanol, ethoxylated, 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

Compension			
Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
(5-ethyl-1,3-dioxan-5-yl)methyl	66492-51-1	Skin Irrit. 2; H315	>= 25 - < 50

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

acrylate	266-380-7	Skin Sens. 1B; H317 Aquatic Chronic 2; H411	
2-hydroxy-3-phenoxypropyl acrylate	16969-10-1 241-045-8	Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 25 - < 50
ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	84434-11-7 282-810-6 01-2119987994-10	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2.5 - < 10
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1- methylethylidene)di-4,1- phenylene]bis[.omega[(1-oxo-2- propenyl)oxy]-	64401-02-1	Aquatic Chronic 2; H411	>= 2.5 - < 10
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	>= 1 - < 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1 500-114-5 01-2119487948-12	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	15625-89-5 239-701-3 607-111-00-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 1 - < 2.5
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5 500-066-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 0.1 - < 1
acrylic acid	79-10-7 201-177-9 607-061-00-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 0.1 - < 0.25

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

 Version
 Revision Date:
 SDS Number:
 Print Date: 21.12.2023

 11.0
 19.12.2023
 102000000361
 Date of first issue: 17.03.2014

		Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		specific concentration limit STOT SE 3; H335 >= 1 % STOT SE 3; H335 >= 1 %	
		Acute toxicity estimate Acute oral toxicity:	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	500 mg/kg Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1	>= 0.1 - < 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 attendance.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.

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



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.

Use personal protective equipment.

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.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Do not flush with water.

Keep in suitable, 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.

Hygiene measures : When using do not eat or drink. When using do not smoke.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions

Protect from humidity and water.

Advice on common storage : [

Do not store near acids.

Do not store together with oxidizing and self-igniting products.

Never allow product to get in contact with water during

storage.

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability

No decomposition if stored and applied as directed.

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 substance hazardous to health includes dust of any kind when present at a			

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

 Version
 Revision Date:
 SDS Number:
 Print Date: 21.12.2023

 11.0
 19.12.2023
 102000000361
 Date of first issue: 17.03.2014

				
	inhalable dust any dust will be levels. Some must comply particles of a particular part response that distinguishes and 'respirable material that e available for ot the fraction definitions and contain compshould be cor	t or 4 mg.m-3 8-hour be subject to COSHHousts have been ass with the appropriate wide range of sizes. cicle after entry into the it elicits, depend on two size fractions for et., Inhalable dust appendent the nose and deposition in the respondent penetrates to the dexplanatory material onents that have the mplied with., Where respondents to the control of the contr	eater than 10 mg.m-3 8-hour TWA of respirable dust. This I if people are exposed to dusigned specific WELs and explimits., Most industrial dusts. The behaviour, deposition are human respiratory system the nature and size of the partimit-setting purposes terme approximates to the fraction of mouth during breathing and initiatory tract. Respirable dust he gas exchange region of the lare given in MDHS14/4., Vir own assigned WEL, all the no specific short-term exposure syposure limit should be use	s means that ast above these contain and fate of any and the body article. HSE arithmeter or airborne stherefore approximates e lung. Fuller Where dusts relevant limits are limit is listed,
	a riguio tinos	TWA (Respirable dust)	4 mg/m3	GB EH40
	inhalable dust when samplin MDHS14/4 Grespirable, the substance has concentration inhalable dust any dust will be levels. Some must comply particles of a particular part response that distinguishes and 'respirabl material that e available for coto the fraction definitions and contain comply should be corresponded.	t are those fractions ag is undertaken in acceneral methods for so pracic and inhalable accerding to the appropriate of the app	ses of these limits, respirable of airborne dust which will be coordance with the methods ampling and gravimetric analerosols., The COSHH defined dust of any kind when eater than 10 mg.m-3 8-hour TWA of respirable dust. This if people are exposed to dustigned specific WELs and explimits., Most industrial dusts. The behaviour, deposition and he human respiratory system the nature and size of the partimit-setting purposes termed approximates to the fraction of mouth during breathing and intratory tract. Respirable dust he gas exchange region of the later given in MDHS14/4., Wir own assigned WEL, all the no specific short-term exposure supposure limit should be use	e collected described in lysis or lition of a present at a TWA of means that est above these contain and fate of any and the body erticle. HSE ed 'inhalable' airborne s therefore t approximates e lung. Fuller Where dusts relevant limits ure limit is listed,
acrylic acid	79-10-7	STEL	20 ppm 59 mg/m3	2017/164/EU
	Further inform	l nation: Indicative	00 mg/mo	<u> </u>
	. dittiol illiolil	TWA	10 ppm	2017/164/EU
			29 mg/m3	2017/104/20
	Further inform	nation: Indicative		T == =
		TWA	10 ppm 29 mg/m3	GB EH40
		STEL	20 ppm	GB EH40

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

			59 mg/m3	
2,6-di-tert-butyl-p- cresol	128-37-0	TWA	10 mg/m3	GB EH40
			ecific short-term exposure lim sposure limit should be used.	,

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-hydroxy-3- phenoxypropyl acrylate	Workers	Inhalation	Long-term systemic effects	1.65 mg/m3
	Workers	Skin contact	Long-term systemic effects	4.67 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.29 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1.67 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0.17 mg/kg
ethyl phenyl(2,4,6- trimethylbenzoyl)phos phinate	Workers	Skin contact	Long-term systemic effects	1.7 mg/kg
	Workers	Inhalation	Long-term systemic effects	5.88 mg/m3
aluminium powder (stabilised)	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
Glycerol, propoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.22 mg/m3
	Workers	Dermal	Long-term systemic effects	1.92 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4.87 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.15 mg/kg
	Consumers	Oral	Long-term systemic effects	1.39 mg/kg
2-ethyl-2-[[(1- oxoallyl)oxy]methyl]- 1,3-propanediyl diacrylate	Workers	Skin contact	Long-term systemic effects	404 mg/kg
	Workers	Inhalation	Long-term systemic effects	17.1 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.5 mg/kg
	Consumers	Skin contact	Long-term systemic	42 mg/kg

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

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	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m3
Propylidynetrimethan ol, ethoxylated, esters with acrylic acid	Workers	Inhalation	Long-term systemic effects	16.2 mg/m3
	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
acrylic acid	Workers	Inhalation	Long-term systemic effects	30 mg/m3
	Workers	Inhalation	Acute systemic effects	30 mg/m3
	Workers	Inhalation	Long-term local effects	30 mg/m3
	Workers	Inhalation	Acute local effects	30 mg/m3
	Workers	Skin contact	Long-term local effects	1 mg/cm2
	Workers	Skin contact	Acute local effects	1 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	3.6 mg/m3
	Consumers	Inhalation	Acute systemic effects	3.6 mg/m3
	Consumers	Inhalation	Long-term local effects	3.6 mg/m3
	Consumers	Inhalation	Acute local effects	3.6 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0.4 mg/kg
	Consumers	Ingestion	Acute systemic effects	1.2 mg/kg
	Consumers	Skin contact	Long-term local effects	1 mg/cm2
-	Consumers	Skin contact	Acute local effects	1 mg/cm2
2,6-di-tert-butyl-p- cresol	Workers	Inhalation	Long-term systemic effects	0.78 mg/m3
	Workers	Dermal	Long-term systemic effects	0.5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	0.435 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg
	Consumers	Oral	Long-term systemic effects	0.25 mg/kg

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

Substance name	Environmental Compartment	Value
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according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

2-hydroxy-3-phenoxypropyl acrylate	Fresh water	0.0044 mg/l
·	Intermittent water release	0.044 mg/l
	Marine water	0.00044 mg/l
	STP	10 mg/l
	Fresh water sediment	0.0345 mg/kg
	Marine sediment	0.00345 mg/kg
	Soil	0.0043 mg/kg
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
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
2-ethyl-2-[[(1- oxoallyl)oxy]methyl]-1,3- propanediyl diacrylate	Soil	0.0029 mg/kg
	Fresh water	0.00087 mg/l
	Fresh water sediment	0.017 mg/kg
	Marine water	0.000087 mg/l
	Marine sediment	0.0017 mg/kg
	STP	6.25 mg/l
	Secondary Poisoning	10 mg/kg
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
acrylic acid	Fresh water	0.003 mg/l
	Marine water	0.0003 mg/l
	STP	0.9 mg/l
	Fresh water sediment	0.02364 mg/kg
	Marine sediment	0.002364 mg/kg
	Soil	1 mg/kg
	Intermittent water release	0.0013 mg/l
	Secondary Poisoning	0.03 mg/kg
2,6-di-tert-butyl-p-cresol	Fresh water	0.199 µg/l
• •	Marine water	0.02 µg/l
	STP	0.017 mg/l
	Fresh water sediment	0.0996 mg/kg
	Marine sediment	0.00996 mg/kg
	Soil	0.054 mg/kg

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

Secondary Poisoning	8.33 mg/kg
oral (secondary poisoning)	16.67 mg/kg

8.2 Exposure controls

Personal protective equipment

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

concentration of the dangerous substance at the work place.

Respiratory protection : 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

Odour : characteristic

Odour Threshold : No data available

Melting point/range : Not applicable

Boiling point/boiling range : > 100 °C

Flammability : No data available

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

102000000361 Date of first issue: 17.03.2014 11.0 19.12.2023

Upper explosion limit / Upper :

flammability limit

No data available

Lower explosion limit / Lower : No data available

flammability limit

: > 100 °C Flash point

Auto-ignition temperature : No data available

Decomposition temperature : No data available

substance/mixture is non-soluble (in water) рΗ

Viscosity, kinematic No data available

Solubility(ies)

Water solubility insoluble

Solubility in other solvents No data available

Partition coefficient: n-

octanol/water

No data available

: No data available Vapour pressure

: No data available Relative density

Density 1.1 g/cm3

Relative vapour density No data available

Particle characteristics

Particle Size Distribution : No data available

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.

Stable under recommended storage conditions.

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

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

Exposure time: 4 h

Test atmosphere: dust/mist

acrylic acid:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

Assessment: The component/mixture is moderately toxic after

single ingestion.

LD50 (Rat, male): 1.000 mg/kg Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is slightly toxic after

single contact with skin.

2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

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

Remarks : May cause skin irritation and/or dermatitis.

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Result : Skin irritation

acrylic acid:

Species : Rabbit Exposure time : 3 min

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

2-hydroxy-3-phenoxypropyl acrylate:

Result : Corrosive

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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

Remarks : Vapours may cause irritation to the eyes, respiratory system

and the skin.

Glycerol, propoxylated, esters with acrylic acid:

Result : Eye irritation

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Result : Eye irritation

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Result : Irritating to eyes.

acrylic acid:

Result : Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : Causes sensitisation.

Components:

2-hydroxy-3-phenoxypropyl acrylate:

Result : The product is a skin sensitiser, sub-category 1B.

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

Result : May cause sensitisation by skin contact.

Glycerol, propoxylated, esters with acrylic acid:

Result : May cause sensitisation by skin contact.

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

Result : May cause sensitisation by skin contact.

Propylidynetrimethanol, ethoxylated, esters with acrylic acid:

Result : May cause sensitisation by skin contact.

Remarks : Causes sensitisation.

May cause sensitisation of susceptible persons by skin

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

acrylic acid:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-hydroxy-3-phenoxypropyl acrylate:

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:

M-Factor (Short-term (acute) : 1

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

aquatic hazard)

M-Factor (Long-term : 1

(chronic) aquatic hazard)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

acrylic acid:

M-Factor (Short-term (acute) : 1

aquatic hazard)
M-Factor (Long-term :

(chronic) aquatic hazard)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

1

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

2,6-di-tert-butyl-p-cresol:

M-Factor (Short-term (acute) : 1

aquatic hazard)

M-Factor (Long-term : 1

(chronic) aquatic hazard)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Glycerol, propoxylated, esters with acrylic acid:

Partition coefficient: n- : log Pow: 2.52 (23 °C)

octanol/water Method: OECD Test Guideline 107

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Components:

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

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Glycerol, propoxylated, esters with acrylic acid:

Additional ecological

information

: No data available

SECTION 13: Disposal considerations

European Waste Catalogue : 08 03 12 - waste ink containing dangerous substances

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company. In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

In accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082 IMDG : UN 3082

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

((5-ethyl-1,3-dioxan-5-yl)methyl acrylate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

((5-ethyl-1,3-dioxan-5-yl)methyl acrylate)

IATA : Environmentally hazardous substance, liquid, n.o.s.

((5-ethyl-1,3-dioxan-5-yl)methyl acrylate)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III
Labels : 9

IATA (Passenger)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III
Labels : 9

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

IMDG

Marine pollutant : yes

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

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate (Number on list 3)

ethyl phenyl(2,4,6-

trimethylbenzoyl)phosphinate

(Number on list 3)

aluminium powder (stabilised)

(Number on list 40)

Glycerol, propoxylated, esters with acrylic acid (Number on list 3) 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate (Number

on list 3)

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (Number on

list 3)

acrylic acid (Number on list 40, 3)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great

Britain)

Regulation (EC) No 1005/2009 on substances that

Not applicable

Not applicable

: Not applicable

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

deplete the ozone layer

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

15.2 Chemical safety assessment

No data available

Carc.

GB EH40

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapour.

H228 : Flammable solid. H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H351 : Suspected of causing cancer. 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.

Carcinogenicity

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitisation STOT SE : Specific target organ toxicity - single exposure

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

: UK. EH40 WEL - Workplace Exposure Limits

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

according to Regulation (EC) No. 1907/2006



ROTOSTAR UV FX 68-41002 Shrink Silver

Version Revision Date: SDS Number: Print Date: 21.12.2023

11.0 19.12.2023 102000000361 Date of first issue: 17.03.2014

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 mixture: Classification procedure:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
Aquatic Chronic 2	H411	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.

GB / EN