

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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
Material number : 053145U20

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART Suisse SA
Route de la Brasserie 2
1963 Vétroz
Telephone : +410273454800
Telefax : +410273454859
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Skin corrosion/irritation, Category 2, H315
Serious eye damage/eye irritation, Category 1, H318
Skin sensitisation, Category 1, H317

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

Long-term (chronic) aquatic hazard, Category 2, H411

GHS-Labeling

Symbol(s)



Signal word

: Danger

Hazard statements

 : H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

 : **Prevention:**
 P261 Avoid breathing mist or vapours.
 P264 Wash skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ eye protection/ face protection.
Response:
 P302 + P352 IF ON SKIN: Wash with plenty of water.
 P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
 P333 + P317 If skin irritation or rash occurs: Get medical help.
 P391 Collect spillage.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.
Hazardous components which must be listed on the label

Identification

CAS-No.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1
2-hydroxy-3-phenoxypropyl acrylate	16969-10-1
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7
Glycerol, propoxylated, esters with acrylic acid	52408-84-1

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	66492-51-1 266-380-7	Skin Irrit.;2;H315 Skin Sens.;1B;H317 Aquatic Chronic;2;H411	25 - 50
2-hydroxy-3-phenoxypropyl acrylate	16969-10-1 241-045-8	;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	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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	1 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	;2A;H319 Skin Sens.;1;H317	1 - 10
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	;2A;H319 Skin Sens.;1;H317	0,1 - 1
acrylic acid	79-10-7 201-177-9	Flam. Liq.;3;H226 Acute Tox.;4;H302 Acute Tox.;4;H332 Acute Tox.;4;H312 ;1A;H314 ;1;H318 STOT SE;3;H335 Aquatic Acute;1;H400 Aquatic Chronic;2;H411	0,1 - 0,25

For the full text of the H-Statements mentioned in this Section, 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	: 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. If skin irritation persists, call a physician.

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

In case of eye contact	If on skin, rinse well with water. If on clothes, remove clothes. : 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 swallowed	If eye irritation persists, consult a specialist. : 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

This information is not available.

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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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.

This information is not available.

6.3 Methods and materials 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**

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

- 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. 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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
acrylic acid	79-10-7	AGW	10 ppm 30 mg/m ³	2007-03-30	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is compliance with the OEL and biological tolerance values, there is			

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

		no risk of harming the unborn child			
acrylic acid	79-10-7	STEL	20 ppm 59 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
acrylic acid	79-10-7	TWA	10 ppm 29 mg/m ³	2017-02-01	2017/164/EU
Further information		Indicative			
maleic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m ³	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		1; =2.5=(I)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). Sum of vapor and aerosols. When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child. Substance sensitizing through the skin and respiratory system			

8.2 Exposure controls

Personal protective equipment

- Eye 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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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 : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
 : 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.

Environmental exposure controls

- 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.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

- Appearance : liquid
 Colour : silver
 Odour : characteristic
 pH : substance/mixture is non-soluble (in water)
 Melting point/range : Not applicable
 Boiling point/boiling range : > 100 °C

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

Flash point	: > 100 °C
Bulk density	: No data available
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,1 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: 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.

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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.

10.4 Conditions to avoidConditions 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**

Other information : No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

Method: OECD Test Guideline 402

acrylic acid :

Acute oral toxicity

: 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

The component/mixture is moderately toxic after short term
inhalation.

Acute dermal toxicity

: The component/mixture is slightly toxic after single contact
with skin.**Skin corrosion/irritation****Product**

May cause skin irritation and/or dermatitis.

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

Serious eye damage/eye irritation**Product**

May cause irreversible eye damage.

Respiratory or skin sensitisation**Product**

Causes sensitisation.

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

Further information**Product**

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****2-hydroxy-3-phenoxypropyl acrylate (16969-10-1) :****Ecotoxicology Assessment**

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

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7) :**Ecotoxicology Assessment**

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

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(1-oxo-2-propenyl)oxy]- (64401-02-1) :**Ecotoxicology Assessment**

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

acrylic acid (79-10-7) :

M-Factor : 1

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

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

12.2 Persistence and degradability

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 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.

SECTION 13: Disposal considerations**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.

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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

ADR : 3082

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG : 3082

IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.

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

TDG

Not dangerous goods

CFR

Not dangerous goods

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

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

ADR : 9**TDG**

Not dangerous goods

CFR

Not dangerous goods

IMDG : 9**IATA** : 9**14.4 Packing group****ADR**

Packaging group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Packaging group : III

Labels : 9

EmS Code : F-A, S-F

IATAPacking instruction (cargo
aircraft) : 964Packing instruction : 964
(passenger aircraft)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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

14.5 Environmental hazards

ADR : Environmentally hazardous
 IMDG : Marine pollutant

14.6 Special precautions for user

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.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
 REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
 Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
 Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) :

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

: Banned and/or restricted
 ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate)
 (ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate)
 (aluminium powder (stabilised))
 (Glycerol, propoxylated, esters with acrylic acid)
 (Propylidynetrimethanol, ethoxylated, esters with acrylic acid)
 (acrylic acid)

15.2 Chemical safety assessment

No data available

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.
 H400 : Very toxic to aquatic life.
 H411 : Toxic to aquatic life with long lasting effects.

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

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

ROTOSTAR UV FX 68-41002 Shrink Silver

Version 10.0

Revision Date 22.04.2024

Print Date 23.04.2024

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.