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

# **ROTOSTAR UV FP 66-41001Z SILVER**

Version 10.0	Revision Date 04.12.2019	Print Date 06.08.2020

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

#### 1.1 Product identifier

Trade name	:	ROTOSTAR UV FP 66-41001Z SILVER
Material number	:	014129U20M1CN

#### 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

Telephone 1 Telefax 2 E-mail address : msds.eckart@altana.com Responsible/issuing person

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#### **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 : Skin sensitisation, Category 1, H317 Reproductive toxicity, Category 2, H361d

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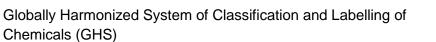
rsion 10.0		Revision Date 04.12.2019	Print Date 06.08.202
		Long-term (chronic) aquatic hazard, (	Category 3, H412
GHS-Labelling			
Symbol(s)	:		
Signal word	:	Warning	
Hazard statements	:	H315: Causes skin irritation. H317: May cause an allergic skin rea H361d: Suspected of damaging the u H412: Harmful to aquatic life with long	inborn child.
Precautionary statements	:	attention.	gas/ mist/ vapours/ spray. nent. ective clothing/ eye

### Hazardous components which must be listed on the label

Identification	CAS-No.
Propylidynetrimethanol, ethoxylated, esters	28961-43-5
with acrylic acid	
ethyl phenyl(2,4,6-	84434-11-7
trimethylbenzoyl)phosphinate	
Modified epoxy acrylate	
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0

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Glycerol, propoxylated, esters with acrylic 52408-84-1 acid

### **SECTION 3: Composition/information on ingredients**

Substance name	: rstar uv fp 66-41001 silber

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Substance No.

#### Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification labelling	n and	Concentration[%]
Propylidynetrimethanol, ethoxylated, esters with acrylic acid	28961-43-5	;2A;H319 Skin Sens.;1	;H317	50 - 100
ethyl phenyl(2,4,6- trimethylbenzoyl)phosphinate	84434-11-7 282-810-6	Aquatic Chronic;2;H4 Skin Sens.;1		10 - 20
aluminium powder (stabilised)	7429-90-5 231-072-3	Flam. Sol.;1;	H228	10 - 20
Modified epoxy acrylate	Not Assigned	Skin Sens.;1	,	1 - 10
1-isopropyl-2,2- dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9	Repr.;2;H36 Aquatic Chronic;3;H4		2,5 - 10
Glycerol, propoxylated, esters with acrylic acid	52408-84-1	Eye Irrit.;2A; Skin Sens.;1		1 - 10
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55818-57-0	Skin Sens.;1;H317	0,1 - 1
Not Assigned	Aquatic Acute;1;H400 Aquatic Chronic;1;H410	0,1 - 0,25
		Not Assigned Aquatic Acute;1;H400 Aquatic

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. Do not leave the victim unatten	ded.
		Move out of dangerous area. Show this safety data sheet to t	he doctor in attendance.
If inhaled	:	If unconscious, place in recover advice. If symptoms persist, call a phys	
In case of skin contact	:	Wash off immediately with soap	o and plenty of water.
		If skin irritation persists, call a p If on skin, rinse well with water. If on clothes, remove clothes.	
In case of eye contact	:	Immediately flush eye(s) with p	lenty of water.
		Flush eyes with water as a pred Remove contact lenses. Keep eye wide open while rinsi If eye irritation persists, consult	ng.
If swallowed	:	Keep respiratory tract clear.	
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Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

#### 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

0 0		
Suitable extinguishing media	:	Dry sand, ABC powder, Foam
Unsuitable extinguishing media	:	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.

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### **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	
Environmental precautions	: 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 materials for o	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. A instructions before use. Avoid c personal protection see section drinking should be prohibited in	ontact with skin and eyes. For 8. Smoking, eating and
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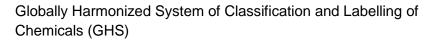


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Advice on protection against fire and explosion	: Normal measures for preventi	ve fire protection.		
Hygiene measures		When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.		
7.2 Conditions for safe storage,	ncluding any incompatibilities			
Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. with water liberates extremely flammable gas (hydrog measures to prevent the build up of electrostatic char explosion-proof equipment. Store in original container containers tightly closed in a cool, well-ventilated plar away from sources of ignition - No smoking. Keep co closed when not in use.		flammable gas (hydrogen) Take up of electrostatic charge. Use ore in original container. Keep cool, well-ventilated place. Keep		
	Keep container tightly closed i place. Containers which are o resealed and kept upright to p installations / working material technological safety standards	pened must be carefully revent leakage. Electrical Is must comply with the		
Further information on storage conditions	: Protect from humidity and wat	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.			
Other data	: No decomposition if stored an	d applied as directed.		
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### 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 powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			
Further information			dangerous substan ounds at the work pl on).		
aluminium powder (stabilised)	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
	Peak-limit: excursion factor (category)				
Further information			dangerous substan ounds at the work pl on).		
Epoxy acrylate	55818-57- 0	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory			
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		organs in excess of the normal values.Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).				
Epoxy acrylate	55818-57- 0	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900	
	Peak-limit: excursion 2 factor (category)		2;(II)			
Further information         General dust value. For this substance no sexposure limit value is established, since the have information regarding unspecific action organs in excess of the normal values.Com substancesSenate commission for the reviet the work place dangerous for the health (M		since the AGS of fic action on the es.Commission the review of co	does not yet respiratory for dangerous mpounds at			

### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable)	5 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (total)	10 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2012-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m3	2014-11-26	
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powder (stabilised)					
aluminium powder (stabilised)	7429-90-5	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2008-01-01	
aluminium powder (stabilised)	7429-90-5	TWA	5 mg/m3	2005-09-01	
aluminium powder (stabilised)	7429-90-5	TWA (Total)	15 mg/m3	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	5 mg/m3	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (total dust)	15 mg/m3	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (respirable fraction)	5 mg/m3	2011-07-01	
aluminium powder (stabilised)	7429-90-5	TWA (Total dust)	15 mg/m3	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (respirable dust fraction)	5 mg/m3	1989-01-19	
aluminium powder (stabilised)	7429-90-5	TWA (welding fumes)	5 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (pyro powders)	5 mg/m3	2013-10-08	
aluminium powder (stabilised)	7429-90-5	TWA (Respirable fraction)	1 mg/m3	2013-03-01	

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aluminium powder (stabilised)	7429-90-5	TWA (Fumes)	5 mg/m3	1989-01-19	
aluminium powder (stabilised)	7429-90-5	PEL (Welding fumes)	5 mg/m3	2017-10-02	
aluminium powder (stabilised)	7429-90-5	PEL (Pyro powders)	5 mg/m3	2017-10-02	

### 8.2 Exposure controls

Personal protective equipme	ent	
Eye protection	: Goggles	
	: Safety glasses	
Hand protection		
Material	: Solvent-resistant gloves (buty	l-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 w	orkplace should be discussed
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		with the producers of the protective gloves	i.	
	:	The suitability for a specific workplace sho with the producers of the protective gloves		
Skin and body protection	:	Choose body protection according to the a concentration of the dangerous substance		
Respiratory protection	:	Use suitable breathing protection if workpl requires.	ace concentration	
<b>Environmental exposure c</b> General advice	contro	ols		
	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to If the product contaminates rivers and lake respective authorities.		
Water	:	The product should not be allowed to ente courses or the soil.	r drains, water	
	:			

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	No data available
Odour	:	characteristic

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рН	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	101 °C
Flash point	:	101 °C
		<b>N I I I I I I I I I I</b>
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	:	No data available
Water solubility	:	No data available
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

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### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

products

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.		
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			
Hazardous decomposition	: No data available		

Other information	: No data available

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

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#### Acute toxicity

Components:	
ethyl phenyl(2,4,6-trimethylb Acute oral toxicity	enzoyl)phosphinate : : Rat: >5 000 mg/kg
	Method: OECD Test Guideline 401
Acute dermal toxicity	: Rat: > 2 000 mg/kg
	Method: OECD Test Guideline 402
Skin corrosion/irritation	
<u>Product</u>	
May cause skin irritation and/o	r dermatitis.

### Serious eye damage/eye irritation

#### Product

Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Respiratory or skin sensitisation

### Product

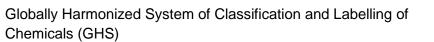
Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

### Carcinogenicity

No data available

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### 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

### **Further information**

### Product

No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

Propylidynetrimethanol, ethoxylated, esters with acrylic acid (28961-43-5) :

Toxicity to daphnia and other : (Daphnia (water flea)): 10 232,73 mg/l

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aquatic invertebrates 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate (6846-50-0) : Toxicity to daphnia and other : (Daphnia (water flea)): 2,46 mg/l aquatic invertebrates **Ecotoxicology Assessment** Long-term (chronic) aquatic : Harmful to aquatic life with long lasting effects.

hazard

#### 12.2 Persistence and degradability

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	:	An environmental hazard cannot be excluded in the event of
information		unprofessional handling or disposal., Harmful to aquatic life
		with long lasting effects.

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### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>In accordance with local and national regulations.</li> </ul>
Contaminated packaging	<ul> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Do not re-use empty containers.</li> <li>In accordance with local and national regulations.</li> </ul>

### **SECTION 14: Transport information**

- 14.1 UN number
- 14.2 Proper shipping name
- 14.3 Transport hazard class
- 14.4 Packing group
- 14.5 Environmental hazards

### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

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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
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	: Not applicable

#### 15.2 Chemical safety assessment

No data available

### **SECTION 16: Other information**

H228	: Flammable solid.
H315	: Causes skin irritation.
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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