

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : ROTOSTAR Aqua FPG 74015 Premium Silver  
Material number : 025407HX0

**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 GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
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 3, H316

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**GHS-Labeling**

Signal word : Warning

Hazard statements : H316: Causes mild skin irritation.

Precautionary statements : **Response:**  
P332 + P317 If skin irritation occurs: Get medical help.

**Hazardous components which must be listed on the label****SECTION 3: Composition/information on ingredients**

Substance No. :

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	10 - 20
propane-1,2-diol	57-55-6 200-338-0	Acute Tox.;5;H313	1 - 10
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	154518-38-4 (52933-07-0)	Skin Corr./Irrit.;2;H315 Eye Dam./Irrit.;1;H318 Aquatic Acute;2;H401 Aquatic Chronic;2;H411	1 - 2,5

For the full text of the H-Statements mentioned in this Section, see Section 16.

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**SECTION 4: First aid measures****4.1 Description of first aid measures**

General advice	: No hazards which require special first aid measures. Move the victim to fresh air.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes. Wash off immediately with soap and plenty of water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing.
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**

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	: Water, Carbon dioxide (CO <sub>2</sub> )

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**5.2 Special hazards arising from the substance or mixture**

This information is not available.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

---

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

The product should not be allowed to enter drains, water courses or the soil.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Do not flush with water.  
Keep in suitable, closed containers for disposal.  
Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

For personal protection see section 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Advice on safe handling : 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.
- 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 : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
- Earthing of containers and apparatuses is essential. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container.
- Advice on common storage : Do not store near acids. Do not store together with oxidizing and self-igniting products. Keep away from oxidizing agents and strongly acid or alkaline materials. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

This information is not available.

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

## ROTOSTAR Aqua FPG 74015 Premium Silver

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

### 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 <sup>3</sup>	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 <sup>3</sup>	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			
2,2',2''-nitrilotriethanol	102-71-6	AGW (Inhalable fraction)	1 mg/m <sup>3</sup>	2018-06-07	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 no risk of harming the unborn child			

#### 8.2 Exposure controls

##### Personal protective equipment

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

Eye protection	: Safety glasses : Goggles
Hand protection	
Material	: Solvent-resistant gloves (butyl-rubber)
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves. : 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). 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.
<b>Environmental exposure controls</b>	
General advice	: Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. : The product should not be allowed to enter drains, water courses or the soil.

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

Appearance	: liquid
Colour	: silver
Odour	: characteristic
pH	: 6 - 8, 100 %
Freezing point	: No data available
Boiling point/boiling range	: > 100 °C
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	: No data available
Solubility(ies)	
Water solubility	: partly miscible
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



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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**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 : Stable under recommended storage conditions.  
Contact with acids and alkalis may release hydrogen.

**10.4 Conditions to avoid**

Conditions to avoid : No data available  
Do not allow evaporation to dryness.

**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**

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**Components:****propane-1,2-diol :**

Acute oral toxicity : LD50 Rat: &gt; 22 000 mg/kg

Acute dermal toxicity : LD50 Rabbit: &gt; 2 000 mg/kg

**Skin corrosion/irritation****Product**

May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product**

Result: No eye irritation

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

**Respiratory or skin sensitisation**

No data available

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**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:****propane-1,2-diol (57-55-6) :**

Toxicity to daphnia and other : (Daphnia magna (Water flea)): > 10 000 mg/l  
aquatic invertebrates

**Phosphoric acid, C11-14-isoalkyl esters, C13-rich (154518-38-4) :**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6,31 mg/l

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

aquatic invertebrates

Exposure time: 48 h

Toxicity to algae

: EC50 (algae): 150 mg/l  
Exposure time: 72 h**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  
information

: No data available

---

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Product

: Do not dispose of waste into sewer.

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

Contaminated packaging	:	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. 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****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

:

**IATA**

: Not permitted for transport

**14.2 Proper shipping name****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

Not dangerous goods

**IATA**

:

Not permitted for transport

**14.3 Transport hazard class****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

:

Not permitted for transport

**14.4 Packing group****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA****(Cargo)**

:

Not permitted for transport

**(Passenger)**

:

Not permitted for transport

**14.5 Environmental hazards**

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

Due to the risk of hydrogen development we recommend to refrain from airfreighting this/these product(s).

**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)	: Banned and/or restricted (aluminium powder (stabilised)) (Phosphoric acid, C11-14-isoalkyl esters, C13-rich)

**15.2 Chemical safety assessment**

No data available

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

**ROTOSTAR Aqua FPG 74015 Premium Silver**

Version 5.0

Revision Date 15.08.2023

Print Date 16.08.2023

---

**SECTION 16: Other information****Full text of H-Statements**

H228	: Flammable solid.
H313	: May be harmful in contact with skin.
H315	: Causes skin irritation.
H316	: Causes mild skin irritation.
H318	: Causes serious eye damage.
H401	: Toxic to aquatic life.

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.