

**ROTOSTAR SUPERECO UV FP75-40601  
SILVER**

Version	Revision Date:	SDS Number:	Date of last issue: 03/06/2025
3.4	03/19/2025	102000027047	Date of first issue: 03/26/2018

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**SECTION 1. IDENTIFICATION**

Product name : ROTOSTAR SUPERECO UV FP75-40601 SILVER  
Product code : 046587ER0

**Manufacturer or supplier's details**

Company name of supplier : ECKART America Corporation  
Address : 830 East Erie Street  
Painesville OH 44077  
Telephone : 866-458-7837  
(440) 954-7600  
Telefax : (440) 354-6224  
e-mail adresse : info.eckart.america.oh@altana.com  
Emergency telephone : **CHEMTREC:** 800-424-9300  
**CHEMTREC:** 1-703-527-3387 (International)

**NCEC:**

(contract no. ECKART29003-NCEC)  
US: +1 866 928 0789 (Toll free)  
Canada: +1 800 579 7421 (Toll Free)  
Mexico: +52 55 5004 8763

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Eye irritation : Category 2A  
Skin sensitization : Category 1  
Carcinogenicity : Category 2

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H351 Suspected of causing cancer.

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## Precautionary Statements :

**Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist or vapors.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.

**Storage:**

P405	Store locked up.
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**Disposal:**

P501	Dispose of contents/ container to an approved waste disposal plant.
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Hazardous ingredients which must be listed on the label:

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)  
Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester  
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.'"-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5	>= 70 - < 90
Aluminum	7429-90-5	>= 5 - < 10
Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-	162881-26-7	>= 1 - < 5
2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester	42978-66-5	>= 1 - < 5
Poly[oxy(methyl-1,2-ethanediyl)], .alpha..alpha.'.alpha.'-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-	52408-84-1	>= 1 - < 5
2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl ester	15625-89-5	>= 1 - < 5

Actual concentration is withheld as a trade secret

**SECTION 4. FIRST AID MEASURES**

- |                         |  |
|-------------------------|--|
| General advice          | : Take the victim into fresh air.<br>Move out of dangerous area.<br>Show this material safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.   |
| If inhaled              | : Remove to fresh air.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.  |
| In case of skin contact | : Wash off immediately with soap and plenty of water.<br>If skin irritation persists, call a physician.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |

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If swallowed	: Induce vomiting immediately and call a physician. 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. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	: May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.

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**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	: Dry sand ABC powder Foam
Unsuitable extinguishing media	: High volume water jet Carbon dioxide (CO <sub>2</sub> )
Specific hazards during fire fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Evacuate personnel to safe areas. Use personal protective equipment.
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.
Environmental precautions	: The product should not be allowed to enter drains, water

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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.

Methods and materials for : Use mechanical handling equipment.  
containment and cleaning up : 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).  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against : Normal measures for preventive fire protection.  
fire and explosion

Advice on safe handling : Do not breathe vapors/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 sensitization problems or asthma,  
allergies, chronic or recurrent respiratory disease should not  
be employed in any process in which this mixture is being  
used.

Conditions for safe storage : 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

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kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Technical measures/Precautions : Protect from humidity and water.

Materials to avoid : 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.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3	OSHA P0

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			(Aluminum)	
		TWA (Respirable fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m <sup>3</sup> (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m <sup>3</sup> (Aluminum)	OSHA P0
		TWA (welding fumes)	5 mg/m <sup>3</sup> (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m <sup>3</sup> (Aluminum)	NIOSH REL
		TWA (Respirable particulate matter)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH
		TWA (Fumes)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (powder)	5 mg/m <sup>3</sup> (Aluminum)	OSHA P0
2-Propenoic acid, 1,1'-[2-ethyl- 2-[[[(1-oxo-2-propen-1- yl)oxy]methyl]-1,3-propanediyl] ester	15625-89-5	TWA	1 mg/m <sup>3</sup>	US WEEL

**Personal protective equipment**

Respiratory protection : Use suitable breathing protection if workplace concentration requires.  
In the case of vapor formation use a respirator with an approved filter.

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

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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.

Eye protection	:	Goggles Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	:	Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	liquid
Color	:	silver
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	substance/mixture is non-soluble (in water)
Melting point/ range	:	Not applicable
Boiling point/boiling range	:	> 100 °C
Flash point	:	> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available

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Density	:	1.1 g/cm3
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Contact with acids and alkalis may release hydrogen. No decomposition if stored and applied as directed.
Conditions to avoid	:	Do not allow evaporation to dryness. No data available
Incompatible materials	:	Acids Bases Oxidizing agents

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.  
Not classified due to lack of data.

**Components:****Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-:**

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:**

Acute oral toxicity	:	(Rat): 2,000 mg/kg
Acute inhalation toxicity	:	(Rat): 0.000545 mg/l Exposure time: 7 h Test atmosphere: vapor

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Acute dermal toxicity : (Rabbit): 2,000 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Not classified based on available information.  
Not classified due to lack of data.

**Components:**

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:**

Result: Skin irritation

**2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl ester:**

Result: Skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.  
Causes serious eye irritation.

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Result: Irritating to eyes.

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:**

Result: Eye irritation

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.,.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-]:**

Result: Eye irritation

**2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl ester:**

Result: Eye irritation

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Skin sensitization**

May cause an allergic skin reaction.

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**Respiratory sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified due to lack of data.

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

Result: May cause sensitization by skin contact.

**Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-]:**

Result: May cause sensitization by skin contact.

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:**

Assessment: May cause sensitization by skin contact.

**Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-]:**

Result: May cause sensitization by skin contact.

**2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester:**

Result: May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

Not classified due to lack of data.

**Carcinogenicity**

Suspected of causing cancer.

Suspected of causing cancer.

**Components:**

**2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester:**

Carcinogenicity - : Limited evidence of carcinogenicity in animal studies

Assessment

**IARC**

Group 2B: Possibly carcinogenic to humans

2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-

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yl)oxy)methyl]-1,3-  
propanediyl] ester

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.  
Not classified due to lack of data.

**STOT-single exposure**

Not classified based on available information.  
Not classified due to lack of data.

**Components:**

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT-repeated exposure**

Not classified based on available information.  
Not classified due to lack of data.

**Aspiration toxicity**

Not classified based on available information.  
Not classified due to lack of data.

**Further information**

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1):**

**Ecotoxicology Assessment**

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

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**Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-:****Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

**2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester:****Ecotoxicology Assessment**

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

**2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Components:****Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propen-1-yl)oxy]-:**

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	: 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.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****Domestic regulation****49 CFR**

Not regulated as a dangerous good

**49 CFR** : Not classified as dangerous in the meaning of transport regulations.

**International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regulations.

**ADR** : Not classified as dangerous in the meaning of transport regulations.

**IATA-DGR** : Not classified as dangerous in the meaning of transport regulations.

**IMDG-Code** : Not classified as dangerous in the meaning of transport regulations.

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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

Not applicable for product as supplied.

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**SECTION 15. REGULATORY INFORMATION****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

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**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Carcinogenicity  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Aluminum	7429-90-5	>= 5 - < 10 %
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**Clean Air Act**

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

**US State Regulations****Massachusetts Right To Know**

Aluminum	7429-90-5
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**Pennsylvania Right To Know**

Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2-propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	28961-43-5
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Aluminum	7429-90-5
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Methanone, 1,1'-(phenylphosphinylidene)bis[1-(2,4,6-trimethylphenyl)-

162881-26-7

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



WARNING: This product can expose you to chemicals including 2-Propenoic acid, 1,1'-[2-ethyl-2-[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Aluminum

7429-90-5

**California Permissible Exposure Limits for Chemical Contaminants**

Aluminum

7429-90-5

**The ingredients of this product are reported in the following inventories:**

DSL	:	This product contains one or several components that are not on the Canadian DSL nor NDSL.
TSCA	:	All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule:

1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2067275-86-7  
oxirane, 4-(dimethylamino)benzoate

No substances are subject to TSCA 12(b) export notification requirements.

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**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)

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OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1  
 Limits for Air Contaminants  
 OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3  
 Mineral Dusts  
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
 ACGIH / TWA : 8-hour, time-weighted average  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour  
 workday during a 40-hour workweek  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA Z-1 / TWA : 8-hour time weighted average  
 OSHA Z-3 / TWA : 8-hour time weighted average  
 US WEEL / TWA : 8-hr TWA

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of  
 Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,  
 and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the  
 German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic  
 Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely  
 Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP  
 - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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;  
 MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National  
 Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No  
 Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National  
 Toxicology Program; 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; RCRA  
 - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the  
 European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and  
 Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition  
 Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet;  
 TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -  
 Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations  
 Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very  
 Bioaccumulative

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