

# **METALSTAR UV 21-2067 SILVER**

Version 5.3

Revision Date: 01/17/2025

SDS Number: 102000028785

Date of last issue: 02/21/2024 Date of first issue: 03/26/2018

#### **SECTION 1. IDENTIFICATION**

Product name : METALSTAR UV 21-2067 SILVER

Product code : 045728EF0

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)

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity : Category 2 (Kidney)

- repeated exposure

**GHS** label elements

Hazard pictograms :





Signal Word : Warning



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Hazard Statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs (Kidney) through prolonged

or repeated exposure.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have

been read and understood.

P260 Do not breathe 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.

present and easy to do. Continue mising.

attention.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash

before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved

waste disposal plant.

Hazardous ingredients which must be listed on the label:

Acrylate oligomer

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)

2-Propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate



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

Phosphonic acid, P-dodecyl-

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate 2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester

## Other hazards

None known.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

## Hazardous ingredients

Chemical name	CAS-No.	Concentration (9/ w/w)
		Concentration (% w/w)
Acrylate oligomer	Not Assigned	>= 20 - < 30
Acrylated Resin	Not Assigned	>= 10 - < 20
Aluminum	7429-90-5	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), .alphahydro-	28961-43-5	>= 10 - < 20
.omega[(1-oxo-2-propen-1-yl)oxy]-, ether		
with 2-ethyl-2-(hydroxymethyl)-1,3-		
propanediol (3:1)		
2-Propenoic acid, 1,1'-[(1-methyl-1,2-	42978-66-5	>= 10 - < 20
ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]]		
ester		
ethyl phenyl(2,4,6-	84434-11-7	>= 5 - < 10
trimethylbenzoyl)phosphinate		
Poly[oxy(methyl-1,2-	52408-84-1	>= 1 - < 5
ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-		
propanetriyltris[.omega[(1-oxo-2-propen-1-		
yl)oxy]-		
Phosphonic acid, P-dodecyl-	5137-70-2	>= 1 - < 5
Phenol, 4,4'-(1-methylethylidene)bis-,	55818-57-0	>= 1 - < 5 >= 0.1 - < 1
polymer with 2-(chloromethyl)oxirane, 2-		
propenoate		
2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-	15625-89-5	>= 0.1 - < 1
propen-1-yl)oxy methyl]-1,3-propanediyl]		
ester		
Acrylate oligomer	Not Assigned	>= 20 - < 30
Acrylated Resin	Not Assigned	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), .alphahydro-	28961-43-5	>= 10 - < 20
.omega[(1-oxo-2-propen-1-yl)oxy]-, ether	20001 10 0	7 10 120
with 2-ethyl-2-(hydroxymethyl)-1,3-		
propanediol (3:1)		
Aluminum	7429-90-5	>= 10 - < 20
2-Propenoic acid, 1,1'-[(1-methyl-1,2-	42978-66-5	>= 10 - < 20
ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]]	72310-00-0	>= 10 - < 20
emaneary/)DIS[OXY(Memyr-2, 1-emaneary)]]	2 / 22	



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ester		
ethyl phenyl(2,4,6-	84434-11-7	>= 5 - < 10
trimethylbenzoyl)phosphinate		
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
Phosphonic acid, P-dodecyl-	5137-70-2	>= 1 - < 5
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate	55818-57-0	>= 0.1 - < 1
2-Propenoic acid, 1,1'-[2-ethyl-2-[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester	15625-89-5	>= 0.1 - < 1

Actual concentration is withheld as a trade secret Actual concentration is withheld as a trade secret

## **SECTION 4. FIRST AID MEASURES**

General advice Move out of dangerous area.

Show this material 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.

If skin irritation persists, call a physician. In case of skin contact

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.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

Keep respiratory tract clear. If swallowed

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms

and effects, both acute and

delayed

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.



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Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure.

**SECTION 5. FIRE-FIGHTING MEASURES** 

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.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if

necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

General advice 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 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

containment and cleaning up

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.

**SECTION 7. HANDLING AND STORAGE** 

fire and explosion

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

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



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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 : 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 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 (Aluminum)	OSHA P0
		TWA	5 mg/m3	OSHA P0



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		(Respirable fraction)	(Aluminum)	
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA PO
		TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
		TWA (Fumes)	5 mg/m3	OSHA P0
		TWA (powder)	5 mg/m3 (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/m3	US WEEL

# Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : 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.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**



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Appearance : viscous liquid

Color : silver

Odor : characteristic
Odor Threshold : No data available

pH : 6-8

Concentration: 100 %

No data available

Melting point/range : Not applicable Boiling point/boiling range : > 100 °C

Flash point :  $> 100 \, ^{\circ}\text{C}$ 

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit / Upper : No data available

flammability limit

Lower explosion limit / Lower

flammability limit

Vapor pressure : No data available Relative density : No data available

Density : 1.1 g/cm3

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n- : No data available

octanol/water

Autoignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available

## **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 : Stable under recommended storage conditions.

reactions

Conditions to avoid : No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

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:



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Acute oral toxicity : (Rat): 2,000 mg/kg

Acute inhalation toxicity : (Rat): 0.000545 mg/l

Exposure time: 7 h
Test atmosphere: vapor

Acute dermal toxicity : (Rabbit): 2,000 mg/kg

Method: OECD Test Guideline 402

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

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

Acute dermal toxicity : (Rabbit): 2,000 mg/kg

Method: OECD Test Guideline 402

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

Skin corrosion/irritation

Causes skin irritation. Causes skin irritation.

**Components:** 

Acrylated Resin: Result: Skin irritation

Result: Skin irritation

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



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Result: Skin irritation

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

Remarks: May cause skin irritation and/or dermatitis.

# Phosphonic acid, P-dodecyl-:

Result: Corrosive after 3 minutes to 1 hour of exposure

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

Result: Skin irritation

## Acrylated Resin:

Result: Skin irritation

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

Result: Skin irritation

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

Remarks: May cause skin irritation and/or dermatitis.

## Phosphonic acid, P-dodecyl-:

Result: Corrosive after 3 minutes to 1 hour of exposure

## 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:**

## Acrylated Resin:

Result: Eye irritation

# 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.



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

Result: Eye irritation

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

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

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

Acrylated Resin:

Result: Eye irritation

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

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

Remarks: Vapors may cause irritation to the eyes, respiratory system and the skin.

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.



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#### Skin sensitization

May cause an allergic skin reaction.

# Respiratory sensitization

Not classified based on available information.

## Respiratory sensitization

Not classified due to lack of data.

### **Components:**

## Acrylate oligomer:

Result: May cause sensitization by skin contact.

# 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.

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

Assessment: May cause sensitization by skin contact.

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

Result: 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.

# Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate:

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.

## Acrylate oligomer:

Result: May cause sensitization by skin contact.

# 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.



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

Assessment: May cause sensitization by skin contact.

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

Result: 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.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate:

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

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- 15625-89-5

ethyl-2-[[(1-oxo-2-propen-1-

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



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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.

## 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

May cause damage to organs (Kidney) through prolonged or repeated exposure. May cause damage to organs (Kidney) through prolonged or repeated exposure.

## **Components:**

## Phosphonic acid, P-dodecyl-:

Target Organs: Kidney

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

# Phosphonic acid, P-dodecyl-:

Target Organs: Kidney

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

#### **Aspiration toxicity**

Not classified based on available information.

Not classified due to lack of data.



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**Further information** 

**Components:** 

Phosphonic acid, P-dodecyl-: Remarks: No data available

Phosphonic acid, P-dodecyl-: Remarks: No data available

#### **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.

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.

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

**Ecotoxicology Assessment** 

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

Phosphonic acid, P-dodecyl-: Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

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



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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.

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.

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.

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

**Ecotoxicology Assessment** 

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

Phosphonic acid, P-dodecyl-: Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-propenoate:

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

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



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## Bioaccumulative potential

No data available

#### Other adverse effects

No data available

## **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.

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

Additional ecological

Additional ecological

information

No data available

## Phosphonic acid, P-dodecyl-:

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.

## 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.

# 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

## Phosphonic acid, P-dodecyl-:

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**

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



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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**

## **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

## International Regulations

**IATA-DGR** 

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Bisphenol A Epoxy resin)

Class : 9 Packing group : III

Labels : Miscellaneous Dangerous Goods

Packing instruction (cargo

aircraft)

: 964

Packing instruction : 964

(passenger aircraft)

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Bisphenol A Epoxy resin)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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.

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.

## 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

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

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 >= 10 - < 20 %

#### 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 SOCMI 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

Acrylate oligomer Not Assigned

Acrylated Resin Not Assigned

28961-43-5 Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-[(1-oxo-2propen-1-yl)oxy]-, ether with 2-ethyl-2-(hydroxymethyl)-1,3-

propanediol (3:1)

Aluminum 7429-90-5

2-Propenoic acid, 1,1'-[(1-methyl-1,2-42978-66-5

ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]] ester

ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate 84434-11-7

## 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.



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, 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.

#### 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**

No substances are subject to a Significant New Use Rule.

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 PO : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

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

AllC - 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



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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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The information provided in this Material 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.

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