

POLYONE CORPORATION**MATERIAL SAFETY DATA SHEET****Solar Oncap Dry Silane(emballage 10Kg)**

Version Number 1.0

Revision Date 01/29/2013

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1. PRODUCT AND COMPANY IDENTIFICATION**POLYONE CORPORATION****33587 Walker Road, Avon Lake, OH 44012**

Telephone : 1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone : **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure number or accident).**
Product name : Solar Oncap Dry Silane(emballage 10Kg)
Product code : CC10125956
Chemical Name : Mixture
CAS-No. : Mixture
Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
2,4-Dimethyl-6(1-methylpentadecyl)-phenol	134701-20-5	1 - 5
Miscellaneous Irritant	0-42-0	5 - 10
Silane, ethenyltriethoxy-	78-08-0	30 - 60
Ethyl alcohol	64-17-5	0.1 - 1
Miscellaneous Tin (TSCA, EINECS)	0-43-1	1 - 5

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture. May be harmful if inhaled. Harmful if swallowed. May cause skin irritation. Vapors may be irritating to eyes and respiratory tract.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion, Eyes, Skin contact

Acute exposure

Inhalation : Excessive inhalation of product vapors may cause respiratory irritation.
Ingestion : May be harmful if swallowed. This product hydrolyses in the stomach to form alcohols.
Eyes : May irritate eyes.
Skin : May cause irritation, local redness and possible swelling.

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Chronic exposure : Refer to Section 11 for Toxicological Information.

Medical Conditions Aggravated by Exposure: : Individuals with chronic respiratory disorders (i.e. asthma, chronic bronchitis, etc.) may be adversely affected by any airborne contaminant.

4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Seek medical attention after significant exposure.

Ingestion : Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice. If conscious, drink plenty of water.

Eyes : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin : Wash off with soap and plenty of water. If skin irritation persists seek medical attention.

5. FIREFIGHTING MEASURES

Flash point : not determined

Flammable Limits

Upper explosion limit : not determined

Lower explosion limit : not determined

Auto-ignition temperature : not determined

Suitable extinguishing media : Carbon dioxide blanket, Water spray, Dry powder, Foam.

Special Fire Fighting Procedures : Flammable gas. Vapors are heavier than air and may travel to a source of ignition and flash back. Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible. silicone oxides (SiO_x) Tin oxide fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions : Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.

Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Package all material in appropriate container for disposal.

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7. HANDLING AND STORAGE

- Handling : Keep away from fire, sparks and heated surfaces. Do not use sparking tools. Avoid inhalation of vapour.
- Storage : Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place. Keep away from heat. Excessive storage temperature and humidity can degrade product performance. Store below 149 °F (65 °C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory protection : In high vapour concentrations, use respiratory protection with independent air supply.
- Eye/Face Protection : Safety glasses with side-shields Safety goggles Eye wash bottle with pure water
- Hand protection : Protective gloves
- Skin and body protection : Long sleeved clothing
- Additional Protective Measures : Safety shoes
- General Hygiene Considerations : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Engineering measures : Provide adequate ventilation.

Exposure limit(s)

Components	Value	Exposure time	Exposure type	List:
Ethyl alcohol	1,000 ppm 1,900 mg/m3	PEL:		OSHA Z1
	1,000 ppm 1,900 mg/m3	Time Weighted Average (TWA):		MX OEL
	1,000 ppm	Short Term Exposure Limit (STEL):		ACGIH
Miscellaneous Tin (TSCA, EINECS)	2 mg/m3	Time Weighted Average (TWA):	as Sn	ACGIH
	2 mg/m3	Time Weighted Average (TWA):	as Sn	ACGIH

9. PHYSICAL AND CHEMICAL PROPERTIES

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Form	: solid	Evaporation rate	: Not established
Appearance	: Solids containing flammable liquid	Specific Gravity	: Not determined
Colour	: NO PIGMENT	Bulk density	: not determined
Odour	: Ester-like odor	Vapour pressure	: not determined
Melting point/range	: not determined	Vapour density	: Heavier than air.
Boiling Point:	: not determined	pH	: not determined
Water solubility	: Reacts slowly.		

10. STABILITY AND REACTIVITY

Stability	: The product is stable if stored and handled as prescribed.
Hazardous Polymerization	: May occur.
Conditions to avoid	: Exposure to moisture. Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.
Incompatible Materials	: Strong acids, Oxidizing agents, Reducing agents, Water
Hazardous decomposition products	: Tin oxide fumes. silicone oxides (SiOx) Carbon dioxide (CO ₂), carbon monoxide (CO), oxides of nitrogen (NO _x), other hazardous materials, and smoke are all possible.

11. TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS-No.	Chemical Name	Effect	Target Organ
134701-20-5	2,4-Dimethyl-6(1-methylpentadecyl)-phenol	Irritant	Skin.
0-42-0	Miscellaneous Irritant	sensitizer	Skin.
		Irritant	Eyes, Skin.
64-17-5	Ethyl alcohol	Systemic effects	Liver, heart or circulatory system, central nervous system (CNS), reproductive system.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
64-17-5	Ethyl alcohol	LC50	20000 ppm	rat
		LC50		rat
		Oral	3,450	mouse
		LD50Oral	mg/kg3,450	mouse
		LD50	mg/kg	

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Carcinogenicity

This product contains the following components which, in their pure form, have the following carcinogenicity data:

CAS-No.	Chemical Name	OSHA	IARC	NTP
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IARC Carcinogen Classifications:

- 1 - The component is carcinogenic to humans.
- 2A - The component is probably carcinogenic to humans.
- 2B - The component is possibly carcinogenic to humans.

NTP Carcinogen Classifications:

- 1 - The component is known to be a human carcinogen.
- 2 - The component is reasonably anticipated to be a human carcinogen.

12. ECOLOGICAL INFORMATION

- Persistence and degradability : Not readily biodegradable.
- Environmental Toxicity : There is no data available for this product.
- Bioaccumulation Potential : no data available
- Additional advice : not applicable

13. DISPOSAL CONSIDERATIONS

- Product : The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.
- Contaminated packaging : The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

14. TRANSPORT INFORMATION

- U.S. DOT Classification
- Proper Shipping Name: Solids containing flammable liquid, n.o.s.
- Technical Name: Modified vinyltriethoxysilane
- Hazard Class / Division 4.1
- UN Number UN3175
- Packing Group II
- Label Required 4.1
- ICAO/IATA Refer to specific regulation.
- IMO/IMDG (maritime) Refer to specific regulation.

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15. REGULATORY INFORMATION

US Regulations:

- OSHA Status : Classified as hazardous based on components.
- TSCA Status : All components of this product are listed on or exempt from the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

- California Proposition 65 : Not applicable

SARA Title III Section 302 Extremely Hazardous Substance

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

SARA Title III Section 313 Toxic Chemicals:

Unless specific chemicals are identified under this section, this product is Not Applicable under this regulation

Canadian Regulations:

National Pollutant Release Inventory (NPRI)

not applicable

- WHMIS Classification : D1A

WHMIS Ingredient Disclosure List

CAS-No.
64-17-5
0-43-1

- DSL : DSL status has not been determined. Quantity use in Canada may be restricted by regulations.

National Inventories:

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Australia AICS	:	Not determined
China IECS	:	Not determined
Europe EINECS	:	Listed
Japan ENCS	:	Not determined
Korea KECI	:	Not determined
Philippines PICCS	:	Not determined

16. OTHER INFORMATION

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.