## SAFETY DATA SHEET





#### DeSolite® DP-1032

## Section 1. Identification

: DeSolite® DP-1032 GHS product identifier Other means of : Not available. identification

Product type : Liquid.

**Material uses** : UV-curable coatings, inks and matrix materials.

Supplier : Covestro Desotech Inc. 1122 St Charles Street

Elgin IL 60120

Tel: +1 (847) 697-0400

e-mail address of person responsible for this SDS

resins.SDS@covestro.com

**Emergency telephone** 

<del>1</del>-800-424-9300

number

## Section 2. Hazards identification

**OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200).

Classification of the substance or mixture SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

TOXIC TO REPRODUCTION - Category 1B

#### **GHS label elements**

**Hazard pictograms** 





Signal word : Danger

**Hazard statements** H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child.

**Precautionary statements** 

Response

Prevention : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection.

P261 - Avoid breathing vapor.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace. : P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : P405 - Store locked up.

P501 - Dispose of contents and container in accordance with all local, regional, national Disposal

and international regulations.

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Hazards not otherwise

: None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number : Not applicable.

Ingredient name	%	CAS number
Ethoxylated nonyl phenol acrylate	10 - 25	678991-31-6
2-Propenoic acid, 2-phenoxyethyl ester	5 - 10	48145-04-6
Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)-	1 - 5	75980-60-8
3-trimethoxysilylpropane-1-thiol	1 - 5	4420-74-0
2-ethyl-2-[(3-mercapto-1-oxopropoxy)methyl]propane-1,3-diyl bis	0.1-1	33007-83-9
[3-mercaptopropionate]		
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)]]	0.1-1	42978-66-5
ester		
ester		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get

medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep

at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

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**Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities

have been ingested or inhaled.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides hydrogen sulphide

nitrogen oxides (NO, NO2 etc.)

mercaptans ammonia (NH<sub>3</sub>) amines

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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Special protective equipment

for fire-fighters

 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store in original container, protected from direct sunlight. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Keep away from heat and direct sunlight. Inhibitor only effective in the presence of oxygen.

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## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Ethoxylated nonyl phenol acrylate	None.
2-Propenoic acid, 2-phenoxyethyl ester	None.
Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)-	None.
3-trimethoxysilylpropane-1-thiol	None.
2-ethyl-2-[(3-mercapto-1-oxopropoxy)methyl]propane-1,3-diyl bis	None.
[3-mercaptopropionate]	
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-	None.
2,1-ethanediyl)]] ester	

# Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne

contaminants below any recommended or statutory limits.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. < 1 hour (breakthrough time): (0.12 mm) Nitrile gloves.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Remarks

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# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid. [viscous]

Color : Colorless to light yellow.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : Not available.

Flash point : Closed cup: >212°F (>100°C) [(estimate)]

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.9 to 1.2 (Water = 1)

Density (g/cm³) : 0.9 to 1.2 g/cm³ (23°C)

Bulk density : Not available.

Solubility : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.
Solubility at room : Not available.

temperature

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.

Remarks : Soluble in the following materials: organic solvents

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Stable under storage conditions (see section 7).

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Keep away from heat and direct sunlight. Keep away from flames or sparks. May

polymerize on exposure to light. During heating, spontaneous polymerisation can occur.

Incompatible materials : Free radical initiators, peroxides, strongly alkaline and strongly acidic materials or

reactive metals. Contact with these could result in uncontrolled exothermic

polymerization.

Hazardous decomposition

products

: No specific data.

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Remarks

: Keep away from heat and direct sunlight. Keep away from flames or sparks. Keep away from: Free radical initiators, peroxides, strongly alkaline and strongly acidic materials or reactive metals. Contact with these could result in uncontrolled exothermic polymerization.

# Section 11. Toxicological information

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-Propenoic acid, 2-phenoxyethyl ester	LD50 Oral	Rat - Female	5000 mg/kg	-
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-	LD50 Dermal	Rat - Male, Female	>2000 mg/kg ( LD0 = 2000 mg/ kg )	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg ( LD0 = 5000 mg/ kg )	-
3-trimethoxysilylpropane-1-thiol	LD50 Dermal LD50 Oral	Rat - Female Rat - Male Rat - Female	2172 mg/kg 2497 mg/kg 741 mg/kg	- - -
2-ethyl-2-[(3-mercapto- 1-oxopropoxy)methyl]propane- 1,3-diyl bis	LD50 Oral LD50 Oral	Rat - Male Rat	893 mg/kg 1000 mg/kg	-
[3-mercaptopropionate] 2-propenoic acid, 1,1'-[ (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	LC0 Inhalation Vapor	Rat - Male, Female	0.000545 mg/l	7 hours
CSICI	LD50 Dermal	Rat - Female	>2000 mg/kg ( LD0 = 2000 mg/ kg. Mortality : Not applicable )	-
	LD50 Oral	Rat - Female	>2000 mg/kg ( LD0 = 2000 mg/ kg. Mortality : Not applicable )	-

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Propenoic acid,	Eyes - Redness of the	Rabbit	1	hours	24 hours
2-phenoxyethyl ester	conjunctivae				
	Skin - Primary dermal	Rabbit	0.25	24 hours	-
	irritation index (PDII)				
Methanone,	Eyes - Non-irritating	Rabbit	0	-	-
(diphenylphosphinyl)					
(2,4,6-trimethylphenyl)-					
	Skin - Non-irritating	Rabbit	0	-	-
3-trimethoxysilylpropane-1-thiol	Skin - Edema	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Skin - Erythema/Eschar	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Eyes - Cornea opacity	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Iris lesion	Rabbit	0	0.1 ml	24 to 72 hours
	Eyes - Redness of the	Rabbit	0.055	0.1 ml	24 to 72 hours
	conjunctivae				
	Eves - Edema of the	Rabbit	0	0.1 ml	24 to 72 hours
	conjunctivae				
2-propenoic acid, 1,1'-[	Skin - Erythema/Eschar	Rabbit	0.22	4 hours 0.5 ml	24 to 72 hours
(1-methyl-1,2-ethanediyl)bis					
[oxy(methyl-2,1-ethanediyl)]]					
ester					
	Skin - Edema	Rabbit	0	4 hours 0.5 ml	24 to 72 hours
	Z Edoilla		ľ	1.110410 0.01111	

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Eyes - Cornea opacity	Rabbit	1	24 hours 0.1 ml	24 to 72 hours
Eyes - Iris lesion	Rabbit	0.44	24 hours 0.1 ml	24 to 72 hours
Eyes - Redness of the conjunctivae	Rabbit	2.33	24 hours 0.1 ml	24 to 72 hours
Eyes - Edema of the conjunctivae	Rabbit	1.67	24 hours 0.1 ml	24 to 72 hours
Eyes - Severe irritant	Rabbit	-	24 hours 100 microliters	-
Skin - Moderate irritant	Rabbit	-	500 milligrams	-

### **Sensitization**

Product/ingredient name	Route of exposure	Species	Result	
2-Propenoic acid, 2-phenoxyethyl ester	skin	Guinea pig	Sensitizing	
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-	skin	Mouse	Sensitizing	
3-trimethoxysilylpropane-1-thiol	skin	Guinea pig	Sensitizing	
2-ethyl-2-[(3-mercapto- 1-oxopropoxy)methyl]propane- 1,3-diyl bis	skin	Guinea pig	Sensitizing	
[3-mercaptopropionate] 2-propenoic acid, 1,1'-[ (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	skin	Mouse	Sensitizing	

## **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
2-Propenoic acid,	-	Experiment: In vitro	Negative
2-phenoxyethyl ester		Subject: Bacteria	
	-	Experiment: In vitro	Negative
		Subject: Mammalian-Animal	
	-	Experiment: In vitro	Negative
		Subject: Mammalian-Human	
2-propenoic acid, 1,1'-[	OECD 471 Bacterial	Experiment: In vitro	Positive
(1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Reverse Mutation Test	Subject: Bacteria	
55.5.	Mouse Lymphoma	Experiment: In vitro	Positive
	Forward Mutation Assay	Subject: Mammalian-Animal	
	,,	Cell: Somatic	
		Metabolic activation: Without & with	
		metabolic activation	
	OECD 474 Mammalian	Experiment: In vivo	Negative
	Erythrocyte Micronucleus	Subject: Mammalian-Animal	
	Test	Cell: Somatic	
	Chromosome aberration	Experiment: In vivo	Negative
	and DNA damage and/or	Subject: Mammalian-Animal	
	repair	Cell: Somatic	

## Carcinogenicity

Not available.

## Reproductive toxicity



Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2-Propenoic acid, 2-phenoxyethyl ester	-	-	-	Rat - Male, Female	Oral: 300 mg/kg Once daily, Parental	-
2-propenoic acid, 1,1'-[ (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	-	Negative	-	Rat - Male, Female	Oral: 250 mg/kg / day (NOAEL)	-
	-	-	Negative	Rat	Oral: 250 mg/kg / day (NOAEL - Embryotoxicity)	-
	-	-	Negative	Rat	Oral: 250 mg/kg / day (NOAEL - Teratogenicity)	-

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
2-propenoic acid, 1,1'-[ (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]] ester	Negative - Oral	Rat	250 mg/kg	-

#### Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
2-propenoic acid, 1,1'-[(1-methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)]] ester	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

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**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact** : Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
<ul><li>Propenoic acid,</li><li>2-phenoxyethyl ester</li></ul>		Rat - Male, Female	300 mg/kg Once daily	-
Methanone, (diphenylphosphinyl) (2,4,6-trimethylphenyl)-		Rat - Male, Female	50 mg/kg day	-
2-propenoic acid, 1,1'-[ (1-methyl-1,2-ethanediyl)bis [oxy(methyl-2,1-ethanediyl)]]		Rat - Male, Female	250 mg/kg /day	-
ester	_	Rabbit - Male, Female	250 mg/kg /day	-

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
DeSolite® DP-1032	36015	196391.4	N/A	N/A	N/A
2-Propenoic acid, 2-phenoxyethyl ester	5000	N/A	N/A	N/A	N/A
3-trimethoxysilylpropane-1-thiol	741	2172	N/A	N/A	N/A
2-ethyl-2-[(3-mercapto-1-oxopropoxy)methyl]propane- 1,3-diyl bis[3-mercaptopropionate]	1000	N/A	N/A	N/A	N/A

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# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
2-Propenoic acid,	Acute EC50 4.44 mg/l	Algae	72 hours
2-phenoxyethyl ester	_		
	Acute EC50 1.33 mg/l	Algae	96 hours
	Acute EC50 1.21 mg/l	Daphnia	48 hours
	Acute EC50 177 mg/l	Micro-organism	3 hours
	Acute LC50 10 mg/l	Fish	96 hours
	Chronic EC <sub>10</sub> 0.1 mg/l	Daphnia	21 days
Methanone,	Acute EC50 1.56 mg/l Fresh water	Algae	72 hours
(diphenylphosphinyl)			
(2,4,6-trimethylphenyl)-			
	Acute EC50 3.53 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 1.4 mg/l	Fish	96 hours
3-trimethoxysilylpropane-1-thiol		Daphnia	48 hours
	Acute LC50 439 mg/l Fresh water	Fish	96 hours
2-ethyl-2-[(3-mercapto-	EC50 0.71 mg/l	Daphnia	48 hours
1-oxopropoxy)methyl]propane-			
1,3-diyl bis			
[3-mercaptopropionate]			
	LC50 0.42 mg/l	Fish	96 hours
2-propenoic acid, 1,1'-[	Acute EC50 65.9 mg/l Fresh water	Algae	96 hours
(1-methyl-1,2-ethanediyl)bis			
[oxy(methyl-2,1-ethanediyl)]]			
ester			
	Acute EC50 69 mg/l Fresh water	Daphnia	48 hours
	Acute LC50 4.6 to 10 mg/l Fresh water	Fish	96 hours
	Acute NOEC 2.15 mg/l Fresh water	Fish - Leuciscus idus	96 hours

## Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-Propenoic acid,	OECD 301D	22.3 % - Inherent - 28 days	-	-
2-phenoxyethyl ester	Ready			
	Biodegradability -			
	Closed Bottle Test			
3-trimethoxysilylpropane-1-thiol	OECD 301A	51 % - 28 days	-	-
	Ready	-		
	Biodegradability -			
	DOC Die-Away			
	Test			
2-propenoic acid, 1,1'-[	OECD 301B	48 % - 28 days	-	-
(1-methyl-1,2-ethanediyl)bis	Ready	-		
[oxy(methyl-2,1-ethanediyl)]]	Biodegradability -			
ester	CO <sub>2</sub> Evolution			
	Test			

Aquatic half-life	Photolysis	Biodegradability
-	-	Inherent
-	-	Not readily
		•
-	-	Inherent
-	-	Not readily
		•
	- -	

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2-propenoic acid, 1,1'-[	-	-	Inherent
(1-methyl-1,2-ethanediyl)bis			
[oxy(methyl-2,1-ethanediyl)]]			
ester			

### **Bioaccumulative potential**

LogPow	BCF	Potential
2.58	-	low
3.1	53 to 72	low
-	116	low
2	-	low
	2.58 3.1	2.58 - 3.1 53 to 72 - 116

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-

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Environmental	No.	No.	No.	No.	No.
hazards					

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright

and secure. Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

Transport in bulk according

to IMO instruments

: Not available.

## **Section 15. Regulatory information**

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: See remarks

United States inventory (TSCA 8b): See remarks

Clean Water Act (CWA) 307: toluene

Clean Water Act (CWA) 311: cyclohexane; toluene

	Product/ingredient name	CAS#	%
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Glycol ether acrylate 2-Propenoic acid, 2-phenoxyethyl ester	79-10-7 - 48145-04-6 67-56-1 108-88-3	0.0070752 9.0144 7.023 0.00405 0.001215 - 0.001516

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

## **SARA 313**

	Product name	CAS number	%
I Olli IX - IXCDOLLING	Glycol ether acrylate 2-Propenoic acid, 2-phenoxyethyl ester		5 - 10 5 - 10
Juppilei Hollingalion	Glycol ether acrylate 2-Propenoic acid, 2-phenoxyethyl ester		5 - 10 5 - 10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts : None of the components are listed. **New York** : None of the components are listed.

: The following components are listed: GLYCOL ETHERS **New Jersey** 

Pennsylvania : None of the components are listed.

#### California Prop. 65

MARNING: This product can expose you to chemicals including Methanol and Toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Ingredient name	No significant risk level	Maximum acceptable dosage level
Methanol Toluene	-	Yes. Yes.

#### **International regulations**

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Ingredient name	List name	Status
Not listed.		

Remarks : Relevant declarations related to this product are available on request.

## Section 16. Other information

**History** 

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Version : 8

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

## Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method

References : Not available.

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#### ▼ Indicates information that has changed from previously issued version.

#### Notice to reader

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