

# Safety Data Sheet

according to HazCom 2012

SDS # : 55101

**55101**

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Version 1.01

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product identifier****Product name:** 55101**Other means of identification****Product Code** 55101**Synonyms** Not applicable**Recommended use of the chemical and restrictions on use****Identified uses** Adhesives.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Manufacturer Address**

Dymax Corporation  
318 Industrial Lane  
Torrington, CT 06790  
Tel: 860-482-1010  
Fax: 860-496-0608

**Information department:** North American Safety Department @ 1-860-482-1010**Emergency Telephone** North America: Chemtrec @ 1-800-424-9300 (24hrs)**2. HAZARDS IDENTIFICATION****Emergency Overview**

**Physical state** liquid  
**Odor** Characteristic

**Color** light yellow  
**Appearance** transparent

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1

**Target Organ Effects**

Respiratory system, EYES, Skin.

**GHS Label elements, including precautionary statements**



Signal word

Danger

**Hazard statements**

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation  
 H361 - Suspected of damaging fertility or the unborn child  
 H372 - Causes damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Do not eat, drink or smoke when using this product  
 Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other Information****Unknown acute toxicity**

12 % of the mixture consists of ingredient(s) of unknown toxicity.

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret	Classification (Reg. 1272/2008)
Triphenyl phosphate	115-86-6	10-24	*	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Octyl acrylate	2499-59-4	10-24	*	STOT SE 3 (H335) Skin Irrit. 2A (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
decyl acrylate	2156-96-9	10-24	*	STOT SE 3 (H335)

				Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
Vinyl Caprolactam	Proprietary	5-9	*	Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT RE 1 (H372) Eye Irrit. 2A (H319) Skin Sens. 1B (H317)
Isobornyl Acrylate	5888-33-5	5-9	*	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 2 (H411)
Acrylic acid	79-10-7	3-<5	*	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1 (H314) Aquatic Acute 1 (H400)
Photoinitiator	Proprietary	3-<5	*	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335)
Visible Photoinitiator	Proprietary	1-<3	*	Skin Sens. 1 (H317) Repr. 2 (H361f) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Silane Coupling Agent	Proprietary	1-<3	*	Skin Sens. 1 (H317)
Peroxide	Proprietary	1-<3	*	Org. Perox C (H242) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
Visible photoinitiator	Proprietary	<1	*	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### First aid measures

##### **General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

##### **Eye contact**

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

##### **Skin Contact**

Wash off immediately with plenty of water, Get medical attention if irritation develops and persists.

##### **Inhalation**

Remove to fresh air, If symptoms persist, call a physician.

**Ingestion**

If swallowed, Rinse mouth, Get medical attention.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

**Most important symptoms and effects, both acute and delayed****Main Symptoms**

No information available.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use CO<sub>2</sub>, dry chemical, or foam.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**Hazardous combustion products**

Hazardous decomposition products due to incomplete combustion.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation, Wear protective gloves/clothing and eye/face protection.

**Environmental precautions****Environmental precautions**

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Other Information**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up****Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice  
Ensure adequate ventilation  
Protect from light

**Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed in a dry and well-ventilated place  
Protect from light

**Incompatible products**

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triphenyl phosphate 115-86-6 ( 10-24 % )	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup> (vacated) TWA: 3 mg/m <sup>3</sup>	IDLH: 1000 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>
Acrylic acid 79-10-7 ( 3-<5 % )	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m <sup>3</sup> S*	TWA: 2 ppm TWA: 6 mg/m <sup>3</sup>

**ACGIH (American Conference of Governmental Industrial Hygienists)**

TLV - Threshold Limit Value S\* - Skin Absorption

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

PEL - Permissible Exposure Limits

**NIOSH IDLH**

Immediately Dangerous to Life or Health

**Appropriate engineering controls****Engineering Measures**

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety glasses with side-shields If splashes are likely to occur, wear: Goggles

**Hand Protection**

Nitrile rubber, (NBR: 0.6mm), 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.

**Respiratory protection**

Ensure adequate ventilation, A NIOSH-approved respirator with a minimum APF of 50, or 1000 if spray applied, in accordance with 29 CFR 1910.134, Do not breathe vapors, mist or gas.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice, When using do not eat, drink or smoke, Wear suitable

gloves and eye/face protection, Wash hands before breaks and at the end of workday, Contaminated work clothing should not be allowed out of the workplace, Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	Characteristic
<b>Appearance</b>	transparent	<b>Odor threshold</b>	No information available
<b>Color</b>	light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks / • Method</u>
pH		No information available
Melting point / freezing point		No information available
Boiling point / boiling range		No information available
Flash point	101 °C / 213 °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit	-	
Lower flammability limit	-	
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water Solubility	Practically insoluble	
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Dynamic viscosity	2,150 cP	
Kinematic viscosity		No information available
Explosive properties	No information available	
Oxidizing properties	No information available	

### Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available.

### Chemical stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Protect from light. Heat, flames and sparks.

### Incompatible materials

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers.

**Hazardous Decomposition Products**

No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute toxicity****Information on likely routes of exposure**

<b>Inhalation</b>	There is no data for this product
<b>Eye contact</b>	There is no data for this product
<b>Skin Contact</b>	There is no data for this product
<b>Ingestion</b>	There is no data for this product
<b>Symptoms</b>	No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Risk of serious damage to eyes.
<b>Sensitization</b>	May cause sensitization of susceptible persons.
<b>Mutagenic effects</b>	No information available.
<b>Reproductive toxicity</b>	Contains ingredients that are suspected reproductive hazards.
<b>Carcinogenicity</b>	Contains no ingredients above reportable quantities listed as a carcinogen

**Other Information**

<b>Developmental Toxicity</b>	No information available.
<b>STOT - single exposure</b>	
<b>STOT - repeated exposure</b>	
<b>Target Organ Effects</b>	Respiratory system, EYES, Skin.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Chronic toxicity</b>	Repeated contact may cause allergic reactions in very susceptible persons Avoid repeated exposure Contains a known or suspected reproductive toxin

**Numerical measures of toxicity - Product Information**

12 % of the mixture consists of ingredient(s) of unknown toxicity

**The following values are calculated based on chapter 3.1 of the GHS document .**

<b>ATEmix (oral)</b>	3970 mg/kg
<b>ATEmix (dermal)</b>	5656 mg/kg mg/l
<b>ATEmix (inhalation-dust/mist)</b>	19.2 mg/l
<b>ATEmix (inhalation-vapor)</b>	229.4 mg/l

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyl phosphate	= 3500 mg/kg ( Rat )	> 10000 mg/kg ( Rabbit )	> 200000 mg/m <sup>3</sup> ( Rat ) 1 h
Octyl acrylate	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
decyl acrylate	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Vinyl Caprolactam	-	= 1700 mg/kg ( Rabbit )	-
Isobornyl Acrylate	= 4890 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	-
Acrylic acid	= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat )	= 280 µL/kg ( Rabbit ) = 295 mg/kg ( Rabbit )	= 5300 mg/m <sup>3</sup> ( Rat ) 2 h
Photoinitiator	5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	10.6 mg/L ( Rat ) 4 h
Visible Photoinitiator	-	> 2000 mg/kg ( Rat )	-
Silane Coupling Agent	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Peroxide	= 4838 mg/kg ( Rat )	= 3,817 mg/kg ( Rabbit )	-
Visible photoinitiator	> 2000 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

This product contains a chemical which is listed as a severe marine pollutant according to DOT.

Toxic to aquatic life with long lasting effects.

**Ecotoxicity**

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Acute aquatic toxicity****Product Information**

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

**Component Information**

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
Triphenyl phosphate	LC50 0.28-0.5 mg/L 96 h (Oncorhynchus mykiss) LC50 0.81-0.94 mg/L 96 h (Pimephales promelas) LC50 0.53-0.8 mg/L 96 h (Pimephales promelas) LC50 0.47-1.04 mg/L 96 h (Lepomis macrochirus) LC50= 1.2 mg/L 96 h (Oryzias latipes)	EC50 0.86-1.2 mg/L 48 h	EC50 = 0.6 - 4: 9 mg/L 6 h (Pseudokirchneriella subcapitata)
Vinyl Caprolactam	LC50 > 318 mg/L 96 h (Danio rerio)	EC50 > 100 mg/L 48 h (Daphnia magna)	EC50 > 100 mg/L 72 h (Desmodesmus subspicatus)
Isobornyl Acrylate	LC50 = 1.8 mg/L 96 h (Danio rerio)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)	ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)
Acrylic acid	LC50 = 222 mg/L 96 h (Brachydanio rerio)	EC50 = 95 mg/L 48 h (Daphnia magna)	EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)
Visible Photoinitiator	LC50 10 mg/l 48 h (Oryzias latipes)	-	-
Silane Coupling Agent	LC50 > 1024,00 mg/l 96 h (Brachydanio rerio)	EC50 > 876,00 mg/l 48 h (Daphnia magna)	EC50 > 536,00 mg/l 72 h (Scenedesmus subspicatus)
Peroxide	LC50 1.6 mg/l 96 h (Brachydanio rerio)	EC50 11 mg/L 48 h (Daphnia magna)	EC50 0.8 mg/l 72 h (Pseudokirchneriella subcapitata)
Visible photoinitiator	LC50: semi-static 90µg/L 96h (Danio rerio)	-	-

**Persistence and degradability**

No information available.



**Bioaccumulation**

## Component Information

Chemical Name	log Pow
Triphenyl phosphate	4.59
Vinyl Caprolactam	3
Isobornyl Acrylate	4.52
Acrylic acid	0.46
Photoinitiator	2.5
Silane Coupling Agent	2.1
Peroxide	3

**Mobility in soil**

No product level data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Waste Disposal Methods**

Dispose of waste in compliance with local and national regulations.

**Contaminated packaging**

Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

**DOT****UN/ID no**

Not regulated (If shipped in NON BULK packaging by ground transport)

**Proper shipping name**

3082

**Hazard Class**

Environmentally hazardous substance, liquid, n.o.s (Triphenyl phosphate)

**Packing Group**

9 Miscellaneous dangerous substances and articles (Class 9) and environmentally hazardous substances

**Marine pollutant**

III

This product contains a chemical which is listed as a severe marine pollutant according to DOT

**ICAO/IATA**

Not regulated

**IMDG/IMO**

Not regulated

## 15. REGULATORY INFORMATION

**International Inventories****TSCA**

Complies

**AICS**

Complies

**DSL/NDSL**

Complies

**EINECS/ELINCS**

Complies

**ENCS**

Complies

**IECSC**

Simplified Notification

**KECI**

Complies

**NZIoC**

Not listed

**PICCS**

Not listed

**TCSI**

Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**AICS** - Australian Inventory of Chemical Substances  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substance Inventory

## US Federal Regulations

### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CERCLA

. This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):. This material, as supplied, contains one or more substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or as extremely hazardous substances under the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Acrylic acid	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

## US State Regulations

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Triphenyl phosphate 10-24	X	X	X
decyl acrylate 10-24	X	X	X
Octyl acrylate 10-24	-	-	X
Acrylic acid 3-<5	X	X	X
Peroxide 1-<3	X	X	X
(2-Methoxymethylethoxy)propanol <0.1	X	X	X
Toluene <0.1	X	X	X

### California Proposition 65

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

**WARNING**

Chemical Name	California Proposition 65
Toluene 4e-005	Developmental

**Additional information**

None

**16. OTHER INFORMATION****Prepared By**  
**Revision Date**EHS Department  
2021-07-15**Revision Note**

No information available

**Disclaimer**

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Dymax Corporation and its subsidiaries and affiliates (DYMAX). The information in this SDS relates only to the specific material designated herein. DYMAX assumes no legal responsibility for use of or reliance upon the information in this SDS.

**end**