

# Safety Data Sheet

according to Regulation (EC) No. 2015/830

215-CTH-LV-UR-SC

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Issue Date 2019-10-16

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Version 1.03

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier**

Product Name 215-CTH-LV-UR-SC

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Adhesives  
 Uses advised against No information available

**1.3 Details of the supplier of the safety data sheet**

<b>Manufacturer</b> Dymax Corporation 318 Industrial Lane Torrington, CT 06790 Tel: 860-482-1010 Fax: 860-496-0608	<b>Manufacturing Sites</b> Dymax Europe GmbH Kasteler Strasse 45, Building G 359 65203 Wiesbaden, Germany Phone: +49 (0) 611.962.7900 Fax: +49 (0) 611.962.9440	<b>Supplier</b> Dymax Europe GmbH Kasteler Strasse 45, Building G 359 65203 Wiesbaden, Germany Phone: +49 (0) 611.962.7900 Fax: +49 (0) 611.962.9440
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**For further information, please contact:**

Contact Point Mr. Wolfgang Lorscheider  
 E-mail Address wlorscheider@dymax.com

**1.4 Emergency Telephone**

Poison Information Centre telephone number

Emergency Telephone Chemtrec @ 001-703-741-5970 (24hrs)

<b>Austria</b> +43-13649237	<b>Germany</b> 0800-181-7059	<b>Netherlands</b> +31-858880596	<b>Switzerland</b> +(41)435082011
<b>Belgium</b> +(32)-28083237	<b>Greece</b> +(30)-2111768478	<b>Norway</b> +(47)-21930678	<b>Ukraine</b> +(380)-947101374
<b>Bulgaria</b> +(359)-32570104	<b>Hungary</b> +(36)-18088425	<b>Poland</b> +(48)-223988029	<b>UK (London)</b> +(44)-870-8200418
<b>Croatia</b> +(385)-17776920	<b>Ireland</b> +(353)-19014670	<b>Portugal</b> +(351)-308801773	
<b>Czech Republic</b> +(420)-228880039	<b>Italy</b> 800-789-767	<b>Slovakia</b> +(423)-233057972	<b>Israel (IL)</b> +(972)-37630639
<b>Denmark</b> +(45)-69918573	<b>Latvia</b> +(371)-66165504	<b>Slovenia</b> +(386)-18888016	<b>Russia</b> 8-800-100-6346
<b>Finland</b>	<b>Lithuania</b> +(370)-52140238	<b>Spain</b> 900-868538	<b>Saudi Arabia</b> +(966)-8111095861
<b>France</b>	<b>Luxembourg</b> +(352)-20202416	<b>Sweden</b> +(46)-852503403	<b>Turkey</b> +(90)-212-7055340

<b>Australia</b> +(61)-290372994	<b>India</b> 000-800-100-7141	<b>Indonesia</b> 001-803-017-9114	<b>New Zealand</b> +(64)-98010034
<b>Malaysia</b> +(60)-327884561	<b>Singapore</b> 800-101-2201	<b>Taiwan</b> 00801-14-8954	<b>Thailand</b> 001-800-13-203-9987

Section 2: HAZARDS IDENTIFICATION

**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)

Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1B - (H317)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)

**Physical hazards**

None

**Target Organ Effects**

Respiratory system.

**2.2 Label elements****Signal word****Danger****Hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

Contains 1-Vinylhexahydro-2H-Azepin-2-one, N,N-Dimethylacrylamide, Isobornyl Acrylate, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapours/spray

**Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

IF ON SKIN: Gently wash with plenty of soap and water

**Precautionary Statements - Storage**

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

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**2.3 Other Information****Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

Testing for acute and chronic aquatic effects determined no environmental classification is required.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances****3.2. Mixtures****Hazardous components**

Chemical Name	EC No	CAS No	Weight-%	REACH Registration Number	GHS Classification
Isobornyl Acrylate	227-561-6	5888-33-5	25 - 39	01-2119957862-25-0011	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Chronic 2 (H411)
N,N-Dimethylacrylamide	220-237-5	2680-03-7	10 - 24	01-2119971262-39-0007	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Dam. 1 (H318) Flam. Liq. 4 (H227)
1-Vinylhexahydro-2H-Azepin-2-one	218-787-6	2235-00-9	3 - <5		Acute Tox. 4 (H302) Acute Tox. 4 (H312) STOT RE 1 (H372) Eye Irrit. 2A (H319) Skin Sens. 1B (H317)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	1 - <3		Skin Sens. 1B (H317) Repr. 2 (H361f) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)

**Full text of H- and EUH-phrases: see section 16**

Section 4: First aid measures
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**4.1 Description of first aid measures****General advice**

Use first aid treatment according to the nature of the injury.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Eye contact**

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

**Inhalation**

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

**Ingestion**

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.

**4.2. Most important symptoms and effects, both acute and delayed****Main symptoms**

Itching. Rashes.

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

Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**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.

### 5.2 Special hazards arising from the substance or mixture.

**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.

### 5.3 Advice for firefighters

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit, Wear personal protective equipment.

## Section 6: Accidental release measures

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

**Personal precautions**

Ensure adequate ventilation. Wear personal protective equipment.

**For emergency responders**

Use personal protection recommended in Section 8.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so

Try to prevent the material from entering drains or water courses

Local authorities should be advised if significant spillages cannot be contained

See Section 12 for additional Ecological Information

### 6.3 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).

### 6.4. Reference to other sections

See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling.

**Advice on safe handling**

Ensure adequate ventilation

Protect from light

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

Avoid breathing vapours, mist or gas  
 Wash hands before breaks and at the end of workday  
 Regular cleaning of equipment, work area and clothing is recommended  
 When using do not eat, drink or smoke  
 Contaminated work clothing should not be allowed out of the workplace

### 7.2 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  
 Store locked up

### 7.3 Specific end uses

#### **Exposure scenario**

No information available.

#### **Risk Management Methods (RMM)**

The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### **Exposure Limits**

Chemical Name	Ireland	Norway	Poland	Portugal	Switzerland
Isobornyl Acrylate 25 - 39					S+

#### **Derived No Effect Level (DNEL)**

No information available.

#### **Predicted No Effect Concentration (PNEC)**

No information available.

### 8.2 Exposure controls

#### **Occupational exposure controls**

##### **Engineering Measures**

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

##### **Hygiene Measures**

When using do not eat, drink or smoke, Wash hands before eating, drinking or smoking, Avoid contact with skin, eyes or clothing.

#### **Personal protective equipment**

##### **General Information**

Use personal protective equipment in good condition.

##### **Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

##### **Hand Protection**

Nitrile rubber, 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.

#### Eye/face protection

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

#### Skin and body protection

Long sleeved clothing, Apron, Impervious gloves.

#### Environmental Exposure Controls

Keep out of drains, sewers, ditches and waterways.

### Section 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid (gel)	<b>Odour</b>	Characteristic
<b>Appearance</b>	translucent	<b>Odour threshold</b>	No information available
<b>Colour</b>	blue		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>		No information available	
<b>Melting point / freezing point</b>		No information available	
<b>Boiling point / boiling range</b>		No information available	
<b>Flash point</b>	101 °C / 214 °F		
<b>Evaporation rate</b>		No information available	
<b>Flammability (solid, gas)</b>		No information available	
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>		No information available	
<b>Lower flammability limit</b>		No information available	
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Specific Gravity</b>		No information available	
<b>Water Solubility</b>	Practically insoluble		
<b>Solubility in other solvents</b>		No information available	
<b>Partition coefficient: n-octanol/water</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Dynamic viscosity</b>	450 cP		
<b>Kinematic viscosity</b>		No information available	
<b>Explosive properties</b>	No information available		
<b>Oxidising properties</b>	No information available		

#### 9.2 Other Information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

### Section 10: Stability and reactivity

#### 10.1 Reactivity

##### Reactivity

None under normal use conditions.

No information available.

#### 10.2 Chemical stability

##### Stability

Stable under normal conditions

**Explosion data**

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

**10.3 Possibility of Hazardous Reactions**

**Hazardous polymerisation**

None under normal processing.

**Hazardous Reactions**

None under normal processing.

**10.4 Conditions to avoid**

Protect from light, Heat, flames and sparks.

**10.5 Incompatible materials**

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

**10.6 Hazardous Decomposition Products**

None under normal use conditions.

Section 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

**Product Information**

**Inhalation** There is no data for this product.  
**Eye contact** There is no data for this product.  
**Skin Contact** There is no data for this product.  
**Ingestion** There is no data for this product.

0% of the mixture consists of ingredient(s) of unknown toxicity.

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

**ATEmix (oral)** 1,260.00 mg/kg  
**ATEmix (dermal)** 3,506.00 mg/kg  
**ATEmix (inhalation-dust/mist)** 1.32 mg/l

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	
N,N-Dimethylacrylamide	252 mg/kg (Rat)	907mg/kg (Rabbit)	776 ppm (Rat) 1 h

**Skin corrosion/irritation**

Irritating to skin.

**Serious eye damage/eye irritation**

Risk of serious damage to eyes.

**Sensitisation**

May cause sensitisation of susceptible persons.

**Mutagenic effects**

No information available.

#### Carcinogenic effects

No information available

#### Reproductive toxicity

Contains ingredients that are suspected reproductive hazards.

#### STOT - single exposure

#### STOT - repeated exposure

#### Aspiration hazard

No information available.

### Section 12: Ecological information

#### 12.1 Toxicity

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

#### Acute aquatic toxicity

##### Product Information

Testing for acute and chronic aquatic effects determined no environmental classification is required.

##### Component Information

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
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)
N,N-Dimethylacrylamide	LC50 > 120 mg/L 96 h (Oncorhynchus mykiss)	EC50 > 120 mg/l 48 h (Daphnia magna)	-
1-Vinylhexahydro-2H-Azepin-2-one	LC50 > 318 mg/L 96 h (Danio rerio)	EC50 > 100 mg/L 48 h (Daphnia magna)	EC50 > 100 mg/L 72 h (Desmodesmus subspicatus)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	LC50 10 mg/l 48 h (Oryzias latipes)	-	-

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

Chemical Name	log Pow
Isobornyl Acrylate	4.52
1-Vinylhexahydro-2H-Azepin-2-one	3

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects.

None



Section 13: DISPOSAL CONSIDERATIONS
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**13.1 Waste treatment methods****Waste from residues / unused products**

Should not be released into the environment, Dispose of in accordance with local regulations.

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal, Dispose of as hazardous waste in compliance with local and national regulations.

**Other Information**

Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport information
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**IMDG/IMO**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
No information available	

**ADR/RID**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Fish and tree</b>	Not applicable
<b>14.6 Special Provisions</b>	None

**ICAO/IATA**

<b>14.1 UN/ID no</b>	Not regulated
<b>14.2 Proper shipping name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated
<b>14.5 Fish and tree</b>	Not applicable
<b>14.6 Special Provisions</b>	None

Section 15: Regulatory information
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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****WGK Classification**

Water endangering class = 1 (self classification).

**International Inventories**

<b>AICS</b>	Not listed
<b>DSL/NDSL</b>	Not listed
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Simplified Notification
<b>KECI</b>	(LVE)
<b>PICCS</b>	Not listed
<b>NZIoC</b>	Not listed
<b>TCSI</b>	Not listed

TSCA

Complies

**Legend:**

**AICS** - Australian Inventory of Chemical Substances  
**DSL/NDSL** - 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  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory  
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**15.2 Chemical Safety Assessment**

No information available

## Section 16: OTHER INFORMATION

**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H227 - Combustible liquid  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H312 - Harmful in contact with skin  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H331 - Toxic if inhaled  
H335 - May cause respiratory irritation  
H361f - Suspected of damaging fertility  
H372 - Causes damage to organs through prolonged or repeated exposure  
H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Legend****SVHC: Substances of Very High Concern for Authorisation:****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>TWA:</b>	time weighted average	<b>STEL:</b>	Short term exposure limit
<b>Ceiling:</b>	Maximum limit value:	<b>S*</b>	Skin designation

Revision Date 2019-10-16

Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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