

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form	: Substance
Trade name	: Dymalink® 709
Chemical name	: Hydroxy(2-methylprop-2-enoato-O)zinc
EC-No.	: 264-202-2
CAS-No.	: 63451-47-8
REACH registration No.	: 01-2119979090-36
Type of product	: Manufactured
Product group	: Trade product

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

#### 1.2.1. Relevant identified uses

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Use of the substance/mixture : Rubbers

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Resin Solutions, LLC  
665 Stockton Drive, Suite 100  
Exton, PA 19341  
USA  
T +1-484-284-8989  
[product.stewardship@resinsolutions.com](mailto:product.stewardship@resinsolutions.com) -  
<https://www.resinsolutions.com/>

#### European Representative

Resin Solutions Italia Srl  
Via Baiona 107  
48123 RAVENNA  
ITALY  
T +39 0544 459022  
[product.stewardship@resinsolutions.com](mailto:product.stewardship@resinsolutions.com) -  
<https://www.resinsolutions.com/>

### 1.4. Emergency telephone number

Emergency number : Emergency call Carechem 24 International :

- for English speaking countries: +44 (0) 1235 239 670
- for Europe (in local languages): + 33 1 49 00 00 49
- for Africa and Middle East: + 44 (0) 1235 239 671
- for China: 400 120 6011
- for Asia Pacific (Hong-Kong, Singapore, Taiwan, Philippines, India, Vietnam, Sri Lanka, Japan, Korea, Malaysia, Indonesia, Thailand) :  
+ 65 3158 1074

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Emergency number		08 45 46 47	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2

H319

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Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400 (M=1)  
Hazardous to the aquatic environment – Chronic Hazard Not classified  
Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP) : Warning  
Contains : Zinc dimethacrylate  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H400 - Very toxic to aquatic life.  
Precautionary statements (CLP) : P261 - Avoid breathing dust.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection/face protection, protective gloves, protective clothing.  
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/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

Other hazards which do not result in classification : May ignite spontaneously if exposed to air. Flowing product can create electrical charge, resulting sparks may ignite dust or cause an explosion in some concentration ranges. May cause slight irritation to the skin.

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Zinc dimethacrylate (13189-00-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Comments : Where concentrations in this product are displayed as ranges, it is due to batch-to-batch variability.  
Name : Dymalink® 709  
CAS-No. : 63451-47-8  
EC-No. : 264-202-2

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc, hydroxy(2-methyl-2-propenoato-.kappa.O)-	CAS-No.: 63451-47-8 EC-No.: 264-202-2 REACH-no: 01-2119979090-36	85.5 – 100	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Acute 1, H400
Zinc dimethacrylate (Impurity)	CAS-No.: 13189-00-9 EC-No.: 236-144-8 REACH-no: 01-2119976363-30	7 - 13	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 1, H400
Zinc oxide (Impurity, not contributing to the hazard classification)	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7	≤ 4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If necessary seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause mild skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.
Unsuitable extinguishing media	: Use of heavy stream of water may spread fire.

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

Fire hazard	: Vapors generated from overheating/melting/decomposition may be flammable and may cause fire/explosion if source of ignition is present.
Explosion hazard	: Potential dust explosion hazard. When dust becomes airborne and is exposed to an ignition source, sufficient combustible/flammable dust may exist to burn in the open or explode if confined. Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour or dust mixtures.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO <sub>2</sub> ). Metallic oxides. Metallic peroxides. Toxic fumes.

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### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Fight fire from safe distance and protected location.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

- General measures : No flames, no sparks. Eliminate all sources of ignition.

#### 6.1.1. For non-emergency personnel

- Emergency procedures for non-emergency personnel : Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin and eyes. Remove ignition sources. Evacuate unnecessary personnel. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.1.2. For emergency responders

- Emergency procedures for emergency responders : No additional requirement.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Sweep up or vacuum up the product. Avoid creating or spreading dust.
- Methods for cleaning up : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid all contact with skin, eyes, or clothing. Ensure good ventilation of the work station. Avoid contact with elevated temperature or molten product to prevent burns. Wear personal protective equipment. Avoid raising powdered material due to explosion hazard. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. The plastic packaging film used to secure bags of material on pallets can also develop static electricity - remove packaging film in an area free from ignitable vapors/dust. Avoid breathing dust.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed in a cool, well-ventilated place. Store in a dry, cool area. Store at room temperature. Protect from moisture. May polymerize on exposure to temperature rise. Keep away from sources of ignition.
- Incompatible materials : Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents. Iron. copper.
- Storage temperature : 10 – 32 °C

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)	
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	10 mg/m <sup>3</sup> inhalable dust 1 mg/m <sup>3</sup> respirable dust
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> inhalable dust
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)
Remark (ACGIH)	Particulates, not otherwise classified
Zinc dimethacrylate (13189-00-9)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)
Remark (ACGIH)	Particulates, not otherwise classified
Zinc oxide (1314-13-2)	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Zinc oxide, fume
OEL TWA [1]	2 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Chemical Agents Code of Practice 2021
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Zinc oxide
ACGIH OEL TWA	2 mg/m <sup>3</sup>
ACGIH OEL STEL	10 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: Metal fume fever
Regulatory reference	ACGIH 2023

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.9 mg/m <sup>3</sup>

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<b>Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)</b>	
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0.85 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0.35 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0.24 µg/L Calculation method
PNEC aqua (marine water)	0.024 µg/L Calculation method
PNEC aqua (intermittent, freshwater)	2.4 µg/L Calculation method
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	26.4 mg/kg dwt Calculation method
PNEC sediment (marine water)	2.64 mg/kg dwt Calculation method
<b>PNEC (Soil)</b>	
PNEC soil	38.1 µg/kg Calculation method
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	3.2 mg/l Calculation method

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Safety shower. Eye fountain.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or face shield

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Protective gloves. Nitrile rubber gloves. Do not use natural rubber gloves. Product used with solvents : wear thick (> 0.5 mm) nitrile gloves. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility, etc) is noticed

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Combined gas/dust mask with filter type A/P2

#### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: White.
Appearance	: Powder.
Odour	: Slightly acidic.
Odour threshold	: Not available
Melting point	: 231 °C (101.3 kPa)
Freezing point	: Not applicable
Initial boiling point and boiling range	: Decomposes below boiling point at 240°C
Flammability	: Non flammable.
Explosive properties	: Dust may form explosive mixture in air.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: 354.4 °C (101.3 kPa)
Decomposition temperature	: > 200 °C
pH	: Not applicable
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Soluble in: Acetic acid. Water: < 10 mg/l practically insoluble
Partition coefficient n-octanol/water (Log Kow)	: 0.17
Vapour pressure	: 0.00000124 mPa (20°C)
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.9177 (20 °C)
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle aggregation state	: Not available
Particle agglomeration state	: Not available
Particle specific surface area	: Not available
Particle dustiness	: Not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Minimum ignition energy : 500 – 1000 mJ

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Unstable. Inhibitor usually added.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

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### 10.3. Possibility of hazardous reactions

May ignite spontaneously if exposed to air. Dust may form explosive mixture in air. May polymerize. To avoid thermal decomposition, do not overheat. Thermal decomposition products are produced at elevated temperatures and these may be flammable.

### 10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. Avoid dust formation. High temperature. Direct sunlight. Sparks. Open flame.

### 10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases. Strong reducing agents. Iron. copper.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

#### Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)

LD50 oral rat	> 2000 mg/kg (OECD 423 method)
LD50 dermal rabbit	Test waived as substance fulfills exemption criteria under Reach regulation
LC50 inhalation rat	> 5.32 mg/l/4h (OECD 436 method) Read-across (Analogy) Zinc dimethacrylate

#### Zinc dimethacrylate (13189-00-9)

LD50 oral rat	500 mg/kg (OECD 423 method)
LD50 dermal	Test waived as substance fulfills exemption criteria under Reach regulation
LC50 inhalation rat	> 5320 mg/m <sup>3</sup> (OECD 436 method)

#### Zinc, hydroxy(2-methyl-2-propenoato-.kappa.O)- (63451-47-8)

LD50 oral rat	> 2000 mg/kg (OECD 423 method)
LD50 dermal rabbit	Test waived as substance fulfills exemption criteria under Reach regulation
LC50 inhalation rat	> 5.32 mg/l/4h (OECD 436 method) Read-across (Analogy) Zinc dimethacrylate

#### Zinc oxide (1314-13-2)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 inhalation rat	> 5700 mg/m <sup>3</sup> (Exposure time : 4 hours)

Skin corrosion/irritation : Not classified (Conclusive but not sufficient for classification)  
pH: Not applicable  
Additional information : May cause slight irritation to the skin (OECD 439 method)

#### Zinc oxide (1314-13-2)

pH	6.95 (American Process)
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Serious eye damage/irritation : Causes serious eye irritation.  
pH: Not applicable  
Additional information : (OECD 405 method)

#### Zinc oxide (1314-13-2)

pH	6.95 (American Process)
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Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Additional information	: (OECD 406 method)
Germ cell mutagenicity	: Not classified (Conclusive but not sufficient for classification)
Additional information	: In vitro gene mutation study in mammalian cells (OECD 471 method) Ames test : negative
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification)
Additional information	: Read-across (Analogy) Methyl methacrylate
Reproductive toxicity	: Not classified (Conclusive but not sufficient for classification)
Additional information	: (OECD 422 method) NOAEL (oral, rat) : 300 mg/kg bodyweight/day
STOT-single exposure	: Not classified (Conclusive but not sufficient for classification)
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)

### Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)

Viscosity, kinematic	Not applicable
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
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### 11.2.2. Other information

Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Do not allow product to spread into the environment.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified. (Conclusive but not sufficient for classification)

### Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)

LC50 - Fish [1]	2.06 mg/l (OECD 203 method)
EC50 - Crustacea [1]	8.7 mg/l (OECD 202 method)
ErC50 algae	0.24 mg/l (OECD 201 method)

### Zinc dimethacrylate (13189-00-9)

LC50 - Fish [1]	96.73 mg/l (OECD 203 method)
LC50 - Other aquatic organisms [1]	0.56 mg/l (OECD 201 method)
EC50 - Crustacea [1]	8.61 mg/l (OECD 202 method) Read-across (Analogy) 16039-53-5

### Zinc, hydroxy(2-methyl-2-propenoato-.kappa.O)- (63451-47-8)

LC50 - Fish [1]	2.06 mg/l (OECD 203 method)
EC50 - Crustacea [1]	8.7 mg/l (OECD 202 method)
ErC50 algae	0.24 mg/l (OECD 201 method)

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### Zinc oxide (1314-13-2)

LC50 - Fish [1]	1.55 mg/l (Exposure time : 96 hours - Species : Danio rerio [static])
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### 12.2. Persistence and degradability

#### Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)

Persistence and degradability	Readily biodegradable.
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Biodegradation	99 % (OECD 301B method)
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#### Zinc dimethacrylate (13189-00-9)

Persistence and degradability	Readily biodegradable.
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Biodegradation	92 % (OECD 301F method)
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#### Zinc, hydroxy(2-methyl-2-propenoato-.kappa.O)- (63451-47-8)

Persistence and degradability	Readily biodegradable.
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Biodegradation	99 % (OECD 301B method)
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### 12.3. Bioaccumulative potential

#### Hydroxy(2-methylprop-2-enoato-O)zinc (63451-47-8)

Partition coefficient n-octanol/water (Log Kow)	0.17
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Bioaccumulative potential	Bioaccumulation unlikely.
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#### Zinc dimethacrylate (13189-00-9)

Partition coefficient n-octanol/water (Log Pow)	1.03
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#### Zinc, hydroxy(2-methyl-2-propenoato-.kappa.O)- (63451-47-8)

Partition coefficient n-octanol/water (Log Kow)	0.17
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Bioaccumulative potential	Bioaccumulation unlikely.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with the European Directives on waste and hazardous waste. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

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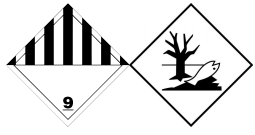
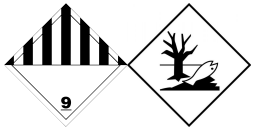


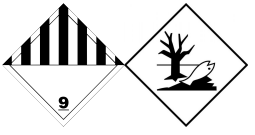
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Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
European List of Waste (LoW, EC 2150/2002)	: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Transport document description</b>				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hydroxy(2-methylprop-2-enoato-O) zinc ; Zinc dimethacrylate), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC SALTS), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (ZINC SALTS), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hydroxy(2-methylprop-2-enoato-O) zinc ; Zinc dimethacrylate), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hydroxy(2-methylprop-2-enoato-O) zinc ; Zinc dimethacrylate), 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing Group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine Pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

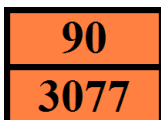
Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: PP12, B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2, BK3

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Portable tank and bulk container special provisions (ADR) : TP33  
Tank code (ADR) : SGAV, LGBV  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V13  
Special provisions for carriage - Bulk (ADR) : VC1, VC2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13  
Hazard identification number (Kemler No.) : 90  
Orange plates :



Tunnel restriction code (ADR) : -  
EAC code : 2Z

### Transport by sea (IMDG)

Special provisions (IMDG) : 274, 335, 966, 967, 969  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
Special packing provisions (IMDG) : PP12  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW23

### Air transport (IATA)

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
Special provisions (IATA) : A97, A158, A179, A197, A215  
ERG code (IATA) : 9L

### Inland waterway transport

Classification code (ADN) : M7  
Special provisions (ADN) : 274, 335, 375, 601  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, A  
Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : M7  
Special provisions (RID) : 274, 335, 375, 601  
Limited quantities (RID) : 5kg  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P002, IBC08, LP02, R001  
Special packing provisions (RID) : PP12, B3  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3  
Portable tank and bulk container special provisions (RID) : TP33

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Tank codes for RID tanks (RID)	: SGAV, LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W13
Special provisions for carriage – Bulk (RID)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Listed on the Canadian Non-Domestic Substances List (NDSL)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Complies the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

## SECTION 16: Other information

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1

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### Full text of H- and EUH-statements:

Aquatic Chronic Not classified	Hazardous to the aquatic environment – Chronic Hazard Not classified
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B

Safety Data Sheet (SDS), EU