

## Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

Initial preparation date: 2020.03.10

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### High Temp V2 Resin

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

##### 1.1 Product identifier

**Product Name:** High Temp V2 Resin

**Product code:** FLHTAM02

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

**Relevant identified uses:** For use in Formlabs SLA Printers

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### 1.3 Details of the manufacturer/supplier of the safety data sheet

**Manufacturer:**

**United States**

Formlabs, Inc

35 Medford St

Suite 201 Somerville, MA 02143

+1 617 855 0762

sds@formlabs.com

**Official distributor**

**in Switzerland:**

Artsupport GmbH

Glattalstrasse 222

CH-8153 Rümlang

+41 (0)44 818 18 18

info@artsupport.ch

##### 1.4 Emergency Telephone Number:

**Switzerland**

+41 (0)44 818 18 18

Mon - Fri 8 a.m. - 12 p.m. and 1 p.m. - 5:00 p.m.

#### SECTION 2: Hazard(s) identification

##### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No. 1272/2008 (CLP):**

Skin irritation, category 2

Serious eye damage, category 1

Skin sensitization, category 1

Chronic aquatic hazard, category 2

**Hazard-determining components of labeling:**

(2,4,6-trioxo-1,3,5-triazine-1,3,5-(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate

Acrylate Monomer(s)

Urethane Dimethacrylate

**Additional Information:** None

##### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Hazard pictograms:**



**Signal word:** Danger

**Hazard statements:**

H315 Causes skin irritation

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H318 Causes serious eye damage  
H317 May cause an allergic skin reaction  
H411 Toxic to aquatic life with long lasting effects

### Precautionary statements:

P264 Wash skin thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 Contaminated work clothing should not be allowed out of the workplace  
P273 Avoid release to the environment  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P332+P313 If skin irritation occurs: Get medical advice/attention  
P362 Take off contaminated 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  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention  
P363 Wash contaminated clothing before reuse  
P391 Collect spillage  
P501 Dispose of contents/container in accordance with local/regional/national regulations

2.3 Other hazards: None known

## SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 40220-08-4 EC number: 254-843-6	-	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyyl triacrylate	Eye Dam. 1; H318	15-25
CAS number: Trade Secret EC number: Trade Secret	-	Acrylate Monomer(s)	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3 (RI); H335 Aquatic Chronic 2; H411	40-60
CAS number: 72869-86-4 EC number: 276-957-5	-	Urethane Dimethacrylate	Skin Sens. 1; H317 Aquatic Chronic 2; H411	25-45

Additional information: None

Full Text of H and EUH statements: See section 16

## SECTION 4: First aid measures

4.1 Description of first aid measures

### General notes:

Show this Safety Data Sheet to the doctor in attendance.

### Following inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

### Following skin contact:

Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes. Continue rinsing for at least 15 minutes. See a physician if irritation persists.

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### Following eye contact:

Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if easy to do so. Protect unexposed eye. Continue rinsing on the way to hospital.

### Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by physician or poison control center. Rinse mouth with water. Never give anything to drink to an unconscious person. Seek medical advice.

### Self-Protection of the first aider:

Not determined or not available.

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

### Acute symptoms and effects:

Symptoms may include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time).

### Delayed symptoms and effects:

Symptoms of poisoning may appear several hours later.

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

### Specific treatment:

None known.

### Notes for the doctor:

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Alcohol- resistant foam, Dry chemical or Carbon dioxide

#### Unsuitable extinguishing media:

None known

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

Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors.

### 5.3 Advice for firefighters

#### Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

#### Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

## SECTION 6: Accidental release measures

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

### 6.4 Reference to other sections:

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For disposal see section 13.  
For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

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

Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use

#### 7.3 Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### SECTION 8: Exposure controls/personal protection



#### 8.1 Control parameters

Only those substances with limit values have been included below.

##### Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

##### Biological limit values:

No biological exposure limits noted for the ingredient(s).

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

Ingredient Name: Acrylate Monomer(s)

CAS #: Trade Secret

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available

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General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	No hazard identified
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	Hazard identified but no DNEL available

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

**Ingredient Name:** Acrylate Monomer(s)

**CAS #:** Trade Secret

Environmental Protection Target	PNEC
Fresh water	1.6 µg/L
Freshwater sediments	0.658 mg/kg
Marine water	0.16 µg/L
Marine sediments	0.066 mg/kg
Food chain	Not determined or not available.
Microorganisms in sewage treatment	10 mg/L
Soil (agricultural)	0.131 mg/kg
Air	No hazard identified

**Information on monitoring procedures:**

Not determined or not applicable.

**8.2 Exposure controls**

**Appropriate engineering controls:**

Effective ventilation in all processing areas.

**Personal protection equipment**

**Eye and face protection:**

Safety goggles or safety glasses

**Skin and body protection:**

Impervious clothing and chemical resistant gloves

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory protection

**General hygienic measures:**

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday.

**Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
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Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

### Risk management measures to control exposure:

Not determined or not applicable.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Light Yellow Liquid
Odor	Characteristic acrylate
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	> 100°C
Flash point (closed cup)	> 93.5°C
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not Flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	1.14 g/cm <sup>3</sup>
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	1015 cps @ 35°C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Does not react under normal conditions of use and storage.

### 10.2 Chemical stability:

Stable under normal storage and handling conditions.

### 10.3 Possibility of hazardous reactions:

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

### 10.4 Conditions to avoid:

Incompatible materials.

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Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

### 10.5 Incompatible materials:

Strong oxidizing agents.

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

### 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 toxicological effects

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Route	Result
(2,4,6-trioxo-1,3,5-triazine-1,3,5-(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	oral	LD50 Rat: >2000 mg/kg

#### Skin corrosion/irritation

##### Assessment:

Causes skin irritation.

##### Product data:

No data available.

##### Substance data:

Name	Result
Acrylate Monomer(s)	Causes skin irritation.

#### Serious eye damage/irritation

##### Assessment:

Causes serious eye damage.

##### Product data:

No data available.

##### Substance data:

Name	Result
(2,4,6-trioxo-1,3,5-triazine-1,3,5-(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	Causes serious eye damage.
Acrylate Monomer(s)	Causes serious eye irritation.

#### Respiratory or skin sensitization

##### Assessment:

May cause an allergic skin reaction.

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### Product data:

No data available.

### Substance data:

Name	Result
Urethane Dimethacrylate	May cause an allergic skin reaction.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Reproductive Toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:**

Name	Result
Acrylate Monomer(s)	May cause respiratory irritation.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

No data available.

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

No data available.

### Other information:

No data available.



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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute (short-term) toxicity

##### Assessment:

Based on available data, the classification criteria are not met.

Product data: No data available.

##### Substance data:

Name	Result
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	LC50 Danio rerio: 2.7 mg/L
	EC50 Daphnia magna: 158.3 mg/L
	ErC50 Pseudokirchneriella subcapitata: 12.9 mg/L

#### Chronic (long-term) toxicity

Assessment: Toxic to aquatic life with long lasting effects.

Product data: No data available.

##### Substance data:

Name	Result
Acrylate Monomer(s)	LC50 Danio rerio: 1.65 mg/L
	EC50 Daphnia magna: 2.36 mg/L
	EC10 Pseudokirchneriella subcapitata: 1.6 mg/L

### 12.2 Persistence and degradability

Product data: No data available.

##### Substance data:

Name	Result
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	This substance is considered inherently biodegradable.
Acrylate Monomer(s)	This substance is inherently biodegradable.
Urethane Dimethacrylate	This substance is not readily biodegradable.

### 12.3 Bioaccumulative potential

Product data: No data available.

##### Substance data:

Name	Result
Acrylate Monomer(s)	This substance has high potential to bioaccumulate.

### 12.4 Mobility in soil

Product data: No data available.

##### Substance data:

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Name	Result
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	This substance is not expected to be adsorbed by the soil.
Acrylate Monomer(s)	This substance has potential to be adsorbed by the soil.
Urethane Dimethacrylate	This substance is expected to disturb between the water column and organic soil and sediment particles.

#### 12.5 Results of PBT and vPvB assessment

##### PBT assessment:

(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	This substance is not PBT.
Acrylate Monomer(s)	This substance is not PBT.
Urethane Dimethacrylate	This substance is not PBT.

##### vPvB assessment:

(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	This substance is not vPvB.
Acrylate Monomer(s)	This substance is not vPvB.
Urethane Dimethacrylate	This substance is not vPvB.

12.6 Other adverse effects: No data available.

#### 12.7 Hazard to the ozone layer

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

13.1.1 **Product / Packaging disposal:** Not determined or not available.

**Waste codes / waste designations according to LoW:** Not determined or not available.

13.1.2 **Waste treatment-relevant information:** Not determined or not available.

13.1.3 **Sewage disposal-relevant information:** Not determined or not available.

13.1.4 **Other disposal recommendations:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

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UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Transport category	This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

#### International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

#### International Maritime Dangerous Goods (IMDG)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

#### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN 3082
UN proper shipping name	Environmentally hazardous liquid, N.O.S. Methacrylate Polymer
UN transport hazard class(es)	9

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Packing group	III
Environmental hazards	Marine Pollutant
Special precautions for user	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L or 5≤ kg provided the packaging meets the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

Transport in bulk according to Annex II of MARPOL and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

## SECTION 15: Regulatory information

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

#### European regulations

##### Inventory listing (EINECS):

40220-08-4	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	Listed
Trade Secret	Acrylate Monomer(s)	Listed
72869-86-4	Urethane Dimethacrylate	Listed

##### REACH SVHC candidate list:

40220-08-4	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	Not Listed
Trade Secret	Acrylate Monomer(s)	Not Listed
72869-86-4	Urethane Dimethacrylate	Not Listed

##### REACH SVHC Authorizations:

40220-08-4	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	Not Listed
Trade Secret	Acrylate Monomer(s)	Not Listed
72869-86-4	Urethane Dimethacrylate	Not Listed

##### REACH Restriction:

40220-08-4	(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	Not Listed
Trade Secret	Acrylate Monomer(s)	Not Listed
72869-86-4	Urethane Dimethacrylate	Not Listed

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

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Ingredient Name	CAS	Class
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	40220-08-4	Non-hazardous to water
Acrylate Monomer(s)	Trade Secret	Non-hazardous to water
Urethane Dimethacrylate	72869-86-4	Water hazard class 1: slightly hazardous to water

#### Other regulations

##### Germany TA Luft:

Ingredient Name	CAS	Class	Base Emission Rate	Max Concentration
(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy)tri-2,1-ethanediyl triacrylate	40220-08-4	Not Applicable		
Acrylate Monomer(s)	Trade Secret	Not Applicable		
Urethane Dimethacrylate	72869-86-4	Not Applicable		

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: Other information

Abbreviations and Acronyms: None

#### Classification procedure:

Classification according to Regulation (EC) No. 1272/2008 (CLP)	Method Used
Skin irritation, category 2	Calculation method
Serious eye damage, category 1	Calculation method
Skin sensitization, category 1	Calculation method
Chronic aquatic hazard, category 2	Calculation method

#### Summary of classification(s) in section 3:

Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Eye Irrit. 2	Eye Irritation, category 2
STOT SE 3 (RI)	Specific target organ toxicity - single exposure, category 3, respiratory tract irritation
Aquatic Chronic 2	Chronic aquatic hazard, category 2
Skin Sens. 1	Skin sensitization, category 1

#### Summary of hazard statements in section 3:

H318	Causes serious eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H411	Toxic to aquatic life with long lasting effects
H317	May cause an allergic skin reaction

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### Disclaimer:

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**