

## Safety Data Sheet acc. to OSHA HCS




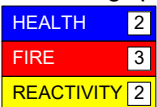
Printing date 01/23/2018

Reviewed on 01/23/2018

### 1 Identification

- **Product identifier**
  - **Trade name: AR4315HP Cream A**
    - **Recommended use** Acrylic Resin
    - **Restrictions on use** For industrial use only
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
ResinLab, LLC  
N109 W13300 Ellsworth Drive  
Germantown, WI 53022  
1-877-259-1669  
www.resinlab.com
  - **Information Department:** Product Safety Department: msds@resinlab.com
  - **Emergency Telephone Number:**  
North America - Chemtrec: 1-800-424-9300 (24 hours)  
International - Chemtrec: 01-703-527-3887 (24 hours)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Flam. Liq. 2 H225 Highly flammable liquid and vapor.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.
- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**  

  
 GHS02    GHS07
  - **Signal word** Danger
  - **Hazard-determining components of labeling:**  
Methacrylic acid  
Tosyl chloride
  - **Hazard statements**  
H225 Highly flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
  - **Precautionary statements**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Do not get in eyes, on skin, or on clothing.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use for extinction: ABC powder.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - **NFPA System**
    - **NFPA ratings (scale 0 - 4)**  

 Health = 2  
Fire = 3  
Reactivity = 2  
  
 NFPA special hazards (water reactivity and oxidizing property): None
  - **HMIS System**
    - **HMIS-ratings (scale 0 - 4)**  

 Health = 2  
Fire = 3  
Reactivity = 2

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- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 RTECS: OZ 5075000	Methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-60%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5 RTECS: OZ 2975000	Methacrylic acid Acute Tox. 3, H311 Skin Corr. 1C, H314 Acute Tox. 4, H302; Acute Tox. 4, H332 Flam. Liq. 4, H227	5%
	Urethane methacrylate Oligomer-Proprietary Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2.5-5%
CAS: 110-16-7 EINECS: 203-742-5 Index number: 607-095-00-3 RTECS: OM 9625000	Maleic acid Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	2.5-5%
CAS: 128-37-0 EINECS: 204-881-4 RTECS: GO 7875000	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, H400 Acute Tox. 4, H302	2.5-5%
CAS: 98-59-9 EINECS: 202-684-8 RTECS: DB8929000	Tosyl chloride Eye Dam. 1, H318 Skin Irrit. 2, H315	1-2.5%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8 RTECS: MX 2450000	Cumene hydroperoxide Acute Tox. 3, H331 STOT RE 2, H373 Skin Corr. 1A, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Acute Tox. 4, H312 Flam. Liq. 4, H227	≥1-<2.5%

- **Additional information:**

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**

- **General information:** Keep warm, position comfortably and cover well.

- **After inhalation:**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.  
In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Remove all contaminated clothing and wash before reuse.  
If skin rash or irritation occurs, seek medical advice.

- **After eye contact:**

Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.

Seek immediate medical advice.

- **After swallowing:**

If victim is unconscious; never give anything by mouth.  
Do NOT induce vomiting.  
If victim is conscious, rinse out mouth and give two glasses of water.  
Call a doctor immediately.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
Check section 11 Toxicological Information for further relevant information.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.  
Carbon dioxide  
dry chemical  
Alcohol resistant foam  
Fire-extinguishing powder

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture**  
Caution! Highly flammable liquid or vapor.

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In case of fire, the following can be released:

Various hydrocarbons  
 Irritating isocyanate vapors may be released during a fire.  
 Irritating organic vapors.  
 Hydrogen cyanide (HCN)  
 Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

· **Advice for firefighters**

· **Protective equipment:**

If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).

As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Caution! Highly flammable liquid or vapor; wear fire resistant or retardant clothing during clean up.

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.

Do not breathe the gas, vapors, dusts or mists if their inhalable particles occur during use.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.

For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.

Ensure adequate ventilation.

Non sparking tools should be used.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep away from incompatible material(s).

Avoid any release into the environment.

Do not breathe dust/fumes/mist/vapor/spray.

Avoid contact with eyes, skin and clothing.

Keep away from heat, sparks, flames and ignition sources.

Observe all the personal protection requirements in Section 8.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Suitable material for receptacles and pipes: Copper.

Store only in the original receptacle.

Store in a cool location.

Keep stored in accordance with local, regional, national, and international regulations.

### 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**80-62-6 Methyl methacrylate**

PEL Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

REL Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 410 mg/m<sup>3</sup>, 100 ppm

Long-term value: 205 mg/m<sup>3</sup>, 50 ppm

DSEN

**79-41-4 Methacrylic acid**

REL Long-term value: 70 mg/m<sup>3</sup>, 20 ppm

Skin

TLV Long-term value: 70 mg/m<sup>3</sup>, 20 ppm

**110-16-7 Maleic acid**

TEEL-1 Short-term value: 7.5 mg/m<sup>3</sup>

TEEL-2 Short-term value: 60.0 mg/m<sup>3</sup>

TEEL-3 Short-term value: 300.0 mg/m<sup>3</sup>

**128-37-0 2,6-di-tert-butyl-p-cresol**

REL Long-term value: 10 mg/m<sup>3</sup>

TLV Long-term value: 2\* mg/m<sup>3</sup>

\*as inhalable fraction and vapor

**98-59-9 Tosyl chloride**

WEEL Ceiling limit value: 5 mg/m<sup>3</sup>

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**80-15-9 Cumene hydroperoxide**
 WEEL Long-term value: 6 mg/m<sup>3</sup>, 1 ppm  
 Skin

 · **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

 · **Exposure controls**

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

 · **Personal protective equipment:**

 · **General protective and hygienic measures:**

Be sure to clean skin thoroughly after work and before breaks.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

 · **Personal Protective Equipment (PPE)**

 · **Breathing equipment:**

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

 · **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

 · **Material of gloves**


Chemical resistant gloves

 · **Eye protection:**


Safety Glasses with side shields

 · **Body protection:** Appropriate chemical resistant clothing.

 · **Limitation and supervision of exposure into the environment**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

### 9 Physical and chemical properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

 · **Form:**

Pasty

 · **Color:**

Cream colored

 · **Odor:**

acrylic like

 · **Odor threshold:**

Not determined.

 · **pH-value at 20 °C (68 °F):** 3-3.5

 · **Change in condition**

 · **Melting point/Melting range:**

Undetermined.

 · **Boiling point/Boiling range:**

Undetermined.

 · **Flash point:** 10 °C (50 °F)

 · **Flammability (solid, gaseous):** Not applicable.

 · **Ignition temperature:** Not determined.

 · **Decomposition temperature:** Not determined.

 · **Auto igniting:** Product is not selfigniting.

 · **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

 · **Explosion limits:**

 · **Lower:**

2.1 Vol %

 · **Upper:**

12.5 Vol %

 · **Vapor pressure:**

29mm Hg@20C

 · **Vapor Density:**

not determined

 · **Density at 20 °C (68 °F):**
1.03 g/cm<sup>3</sup> (8.6 lbs/gal)

 · **Relative density**

Not determined.

 · **Vapor density**

Not determined.

 · **Evaporation rate**

Not determined.

 · **Solubility in / Miscibility with**

 · **Water:**

Not miscible or difficult to mix.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not available.
  - **Kinematic:** Not available.
  - **VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gal

### 10 Stability and reactivity

- **Reactivity** Highly flammable liquid or vapor.
  - **Hazardous Reactivity and Chemical Stability**  
May polymerize explosively when heated or involved in a fire.  
Stable under normal conditions of use, storage and temperatures.
  - **Thermal decomposition / conditions to be avoided:** heat, flame, sparks and sources of ignition.
- **Possibility of hazardous reactions** Hazardous polymerization may occur. Avoid excessive aging, excessive heat and inhibitor depletion.
- **Conditions to avoid**  
Keep away from heat, sparks, flame and any other ignition sources.  
The substance/mixture is highly flammable.
- **Incompatible materials:**  
Moisture.  
Bases (Alkalis)  
Amines  
Ultraviolet radiation.  
Oxidizing agents  
Strong acids  
Reducing agents
- **Hazardous decomposition products:** Possible in traces.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 80-62-6 Methyl methacrylate

Oral	LD50	>6,000 mg/kg (rat)
Dermal	LD50	>7,550 mg/kg (rabbit)
Inhalative	LC50/4 h	27.5 mg/l (rat) (Calculated from LC50/4hrs of 7093 ppm)

#### 79-41-4 Methacrylic acid

Oral	LD50	1,320 mg/kg (rat) (male; OECD TG 401) Reference: ECHA (2011).
Dermal	LD50	500-1,000 mg/kg (rabbit) At 500 mg/kg, no death occurred; at 1000 mg/kg, 2 out of 2 treated rabbits died. Reference: ECHA (2011).
Inhalative	LC50/4 h	7.1 mg/l (rat) The saturated concentration in air was 3.0 mg/l at 20°C; thus, the LC50 value (4 hours) of 7.1 mg/L was higher than the saturated vapor concentration, the substance was considered as "mist containing substantially no vapor". The substance was therefore out of the category criteria. Reference: ECHA (2011).

#### 110-16-7 Maleic acid

Oral	LD50	1,090 mg/kg (Read-across from CAS 108-31-6) (rat; OECD TG 401)
Dermal	LD50	1,560 mg/kg (rabbit) (no test detail available)
Inhalative	LC50/4 h	mg/l (No data available)

#### 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	>2,930 mg/kg (rat) (LD0; OECD TG 401)
Dermal	LD50	≥2,000 mg/kg (rat) (LD0; OECD TG 402; occlusive)
Inhalative	LC50/4 h	mg/l (No data available)

#### 98-59-9 Tosyl chloride

Oral	LD50	mg/kg (rat) (LD0 ≥ 5000 mg/kg; OECD TG 423)
Dermal	LD50	>5,010 mg/kg (rabbit) (24 hrs; 40% solution-suspension) Reference: OECD SIDS (2004).
Inhalative	LC50/4 h	mg/l (No data available)

#### 80-15-9 Cumene hydroperoxide

Oral	LD50	382 mg/kg (rat) (Test guideline not available)
Dermal	LD50	1,200-1,520 mg/kg (rat)
Inhalative	LC50/4 h	1.37 mg/l (rat) (mists; estimated from LC50/4h of 220ppm)

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

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### · Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

80-62-6	Methyl methacrylate	3
128-37-0	2,6-di-tert-butyl-p-cresol	3

#### · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

### · Toxicity

#### · Aquatic toxicity:

##### 80-62-6 Methyl methacrylate

EC50 mg/kg (rabbit) (OECD TG 404)

##### 79-41-4 Methacrylic acid

EC50 mg/kg (rabbit) (OECD TG 404; 3 min-contact; 0.5ml neat substance)

##### 110-16-7 Maleic acid

EC50 mg/kg (Human)

##### 128-37-0 2,6-di-tert-butyl-p-cresol

EC50 mg/kg (rabbit) (Patch test; Semioclusive; neat substance)

##### 98-59-9 Tosyl chloride

EC50 mg/kg (rabbit) (OECD TG 404)

##### 80-15-9 Cumene hydroperoxide

EC50 mg/kg (rabbit) (shaved skin)

· **Persistence and degradability** No further relevant information available.

#### · Behavior in environmental systems:

· **Bioaccumulative potential** No data available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.

#### · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### · Results of PBT and vPvB assessment

· **PBT:** None of the ingredients is listed.

· **vPvB:** None of the ingredients is listed.

· **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### · Waste treatment methods

#### · RCRA Waste:

80-62-6	Methyl methacrylate	U162	50-60%
80-15-9	Cumene hydroperoxide	U096	≥1-<2.5%

#### · Recommendation:

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### · Uncleaned packagings:

· **Recommendation:** Dispose of according to your local waste regulations.

## 14 Transport information

### · UN-Number

· DOT, IMDG, IATA

UN1133

### · UN proper shipping name

· DOT

· IMDG, IATA

Adhesives

ADHESIVES

### · Transport hazard class(es)

· DOT



· Class

3 Flammable liquids

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· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards: Not applicable.	
· Special precautions for user	
· Warning: Flammable liquids	33
· Danger code (Kemler):	F-E,S-D
· EMS Number:	A
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Not applicable.	
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5L On cargo aircraft only: 60L
· IMDG	
· Limited quantities (LQ)	5L
· UN "Model Regulation": UN 1133 ADHESIVES, 3, II	

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

· SARA Section 355 (extremely hazardous substances):		
None of the ingredients is listed.		
· SARA Section 313 (Specific toxic chemical listings):		
80-62-6	Methyl methacrylate	50-60%
80-15-9	Cumene hydroperoxide	≥1-<2.5%
· SARA Section 311/312 (Hazardous Chemical Inventory Reporting)		
80-15-9	Cumene hydroperoxide	A, C, F, R ≥1-<2.5%

**Hazard Abbreviations for SARA 311/312**

- A - Acute Health Hazard
- C - Chronic Health Hazard
- F - Fire Hazard
- R - Reactive Hazard
- S - Sudden Release of Pressure Hazard

**TSCA (Toxic Substances Control Act):**

80-62-6	Methyl methacrylate	
79-41-4	Methacrylic acid	
110-16-7	Maleic acid	
128-37-0	2,6-di-tert-butyl-p-cresol	
98-59-9	Tosyl chloride	
80-15-9	Cumene hydroperoxide	

**TSCA new (21st Century Act) (Substances not listed)**

Urethane methacrylate Oligomer-Proprietary		
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**Proposition 65**
**Chemicals known to cause cancer:**

This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients is listed.		

**Carcinogenic categories**
**EPA (Environmental Protection Agency)**

80-62-6	Methyl methacrylate	E, NL
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**TLV (Threshold Limit Value established by ACGIH)**

80-62-6	Methyl methacrylate	A4
128-37-0	2,6-di-tert-butyl-p-cresol	A4

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **International Regulation Lists**

· **Chinese Chemical Inventory of Existing Chemical Substances:**

80-62-6	Methyl methacrylate
79-41-4	Methacrylic acid
110-16-7	Maleic acid
128-37-0	2,6-di-tert-butyl-p-cresol
98-59-9	Tosyl chloride
80-15-9	Cumene hydroperoxide

· **GHS label elements** GHS label elements

· **National regulations:**

· **Japanese Existing and New Chemical Substance List:**

80-62-6	Methyl methacrylate
79-41-4	Methacrylic acid
110-16-7	Maleic acid
128-37-0	2,6-di-tert-butyl-p-cresol
98-59-9	Tosyl chloride
80-15-9	Cumene hydroperoxide

· **Korean Existing Chemical Inventory:**

80-62-6	Methyl methacrylate
79-41-4	Methacrylic acid
110-16-7	Maleic acid
128-37-0	2,6-di-tert-butyl-p-cresol
98-59-9	Tosyl chloride
80-15-9	Cumene hydroperoxide

· **European Pre-registered substances:**

80-62-6	Methyl methacrylate
79-41-4	Methacrylic acid
110-16-7	Maleic acid
128-37-0	2,6-di-tert-butyl-p-cresol
98-59-9	Tosyl chloride
80-15-9	Cumene hydroperoxide

· **EINECS List:**

80-62-6	Methyl methacrylate
79-41-4	Methacrylic acid
110-16-7	Maleic acid
128-37-0	2,6-di-tert-butyl-p-cresol
98-59-9	Tosyl chloride
80-15-9	Cumene hydroperoxide

· **ELINCS List:**

None of the ingredients is listed.

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department Issuing (M)SDS:** Product Development Department
- **Contact:** msds@resinlab.com
  - **Date of preparation / last revision** 01/23/2018 / 1
  - **\* Data compared to the previous version altered.**