

**ARALDITE® F 361-1 GB BULK**

Version 1.0      Revision Date: 02/04/2021      SDS Number: 400000011015      Date of last issue: -  
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**SECTION 1. IDENTIFICATION**

Product name : ARALDITE® F 361-1 GB BULK

**Manufacturer or supplier's details**

Company name of supplier : Huntsman Advanced Materials Americas LLC  
 Address : P.O. Box 4980  
 The Woodlands,  
 TX 77387  
 United States of America (USA)  
 Telephone : Non-Emergency: (800) 257-5547  
 E-mail address of person responsible for the SDS : Global\_Product\_EHS\_AdMat@huntsman.com  
 Emergency telephone number : Chemtrec: (800) 424-9300 or (703) 527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Adhesives  
 Restrictions on use : For industrial use only.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 2  
 Skin irritation : Category 2  
 Serious eye damage : Category 1  
 Skin sensitisation : Category 1  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)  
 Short-term (acute) aquatic hazard : Category 3  
 Chronic aquatic toxicity : Category 3

**GHS label elements**

Hazard pictograms :



chemical-concepts.com

**800.220.1966**

410 Pike Road • Huntingdon Valley, PA 19006

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- Signal word : Danger
- Hazard statements : H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting  
equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing must not be allowed out of  
the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately  
all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air  
and keep comfortable for breathing. Call a POISON CENTER/  
doctor if you feel unwell.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with  
water for several minutes. Remove contact lenses, if present  
and easy to do. Continue rinsing. Immediately call a POISON  
CENTER/ doctor.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/  
attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or  
alcohol-resistant foam to extinguish.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container  
tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/container to an approved facility in  
accordance with local, regional, national and international  
regulations.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

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Substance / Mixture : Mixture

Chemical nature : Adhesives and/or sealants

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
methyl methacrylate	80-62-6	50 - 70
methacrylic acid	79-41-4	5 - 10
2,6-di-tert-butyl-p-cresol	128-37-0	1 - 5
Silicon, amorphous	7631-86-9	1 - 5
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

**SECTION 4. FIRST AID MEASURES**

- General advice : Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Treat symptomatically.  
 Get medical attention if symptoms occur.
- If inhaled : If inhaled, remove to fresh air.  
 Get medical attention if symptoms occur.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
 If on skin, rinse well with water.  
 If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 Continue rinsing eyes during transport to hospital.  
 Remove contact lenses.  
 Keep eye wide open while rinsing.  
 If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
 Do NOT induce vomiting.  
 Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.  
 Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : None known.

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- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
Avoid inhalation, ingestion and contact with skin and eyes.  
No action shall be taken involving any personal risk or without suitable training.  
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides  
Sulphur oxides  
Hydrogen chloride
- Specific extinguishing methods : No data is available on the product itself.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.  
Beware of vapours accumulating to form explosive

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concentrations. Vapours can accumulate in low areas.

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.  
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Keep in properly labelled containers.
- Materials to avoid : For incompatible materials please refer to Section 10 of this SDS.
- Recommended storage temperature : 36 - 46 °F / 2 - 8 °C
- Further information on : Stable under normal conditions.

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storage stability

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methyl methacrylate	80-62-6	TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH
		TWA	100 ppm 410 mg/m <sup>3</sup>	OSHA Z-1
		TWA	100 ppm 410 mg/m <sup>3</sup>	NIOSH REL
		TWA	100 ppm 410 mg/m <sup>3</sup>	OSHA P0
		TWA	100 ppm 410 mg/m <sup>3</sup>	OSHA P0
methacrylic acid	79-41-4	TWA	20 ppm	ACGIH
		TWA	20 ppm 70 mg/m <sup>3</sup>	NIOSH REL
		TWA	20 ppm 70 mg/m <sup>3</sup>	OSHA P0
		TWA	20 ppm 70 mg/m <sup>3</sup>	OSHA P0
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m <sup>3</sup>	ACGIH
		TWA	10 mg/m <sup>3</sup>	NIOSH REL
		TWA	10 mg/m <sup>3</sup>	OSHA P0
		TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
Silicon, amorphous	7631-86-9	TWA (Dust)	80 mg/m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL
Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	14807-96-6	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0

**Personal protective equipment**

Respiratory protection : General and local exhaust ventilation is recommended to

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maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- Hand protection
- Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : paste
- Colour : white
- Odour : acrylic-like
- Odour Threshold : No data is available on the product itself.
- pH : substance/mixture is non-soluble (in water)
- Melting point/freezing point : No data is available on the product itself.
- Boiling point : > 212 °F / > 100 °C
- Flash point : 50 °F / 10 °C  
Method: closed cup

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Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : 1.01 - 1.02

Density : No data is available on the product itself.

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity  
Viscosity, dynamic : 30,000 mPa.s (77 °F / 25 °C)  
thixotropic

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous : Vapours may form explosive mixture with air.



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Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Reducing agents  
Strong oxidizing agents  
Heavy metal salts

Hazardous decomposition products : carbon dioxide  
carbon monoxide

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : No data is available on the product itself.

**Acute toxicity**

Acute oral toxicity - Product : Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity - Product : Acute toxicity estimate: 37.92 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute toxicity estimate: 38.25 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity - Product : Acute toxicity estimate : 4,055 mg/kg  
Method: Calculation method

Acute toxicity estimate : 4,111 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) : No data available

**Skin corrosion/irritation****Components:**

methyl methacrylate:  
Species: Rabbit  
Method: OPPTS 870.2500  
Result: Skin irritation

methacrylic acid:

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Species: Rabbit  
Assessment: Causes severe burns.  
Method: OECD Test Guideline 404  
Result: Extremely corrosive and destructive to tissue.  
GLP: yes

2,6-di-tert-butyl-p-cresol:  
Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

Silicon, amorphous:  
Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation

**Serious eye damage/eye irritation****Components:**

methacrylic acid:  
Species: Rabbit  
Result: Irreversible effects on the eye  
Assessment: Risk of serious damage to eyes.  
Method: Draize Test  
GLP: no

2,6-di-tert-butyl-p-cresol:  
Species: Rabbit  
Result: No eye irritation  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
GLP: yes

Silicon, amorphous:  
Species: Rabbit  
Result: No eye irritation  
Assessment: No eye irritation  
Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Components:**

methyl methacrylate:  
Exposure routes: Skin  
Species: Mouse  
Assessment: May cause sensitisation by skin contact.  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.

methacrylic acid:  
Test Type: Buehler Test  
Exposure routes: Skin  
Species: Guinea pig

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Assessment: Did not cause sensitisation on laboratory animals.  
 Method: OECD Test Guideline 406  
 Result: Did not cause sensitisation on laboratory animals.

2,6-di-tert-butyl-p-cresol:  
 Exposure routes: Skin  
 Species: Humans  
 Result: Does not cause skin sensitisation.

Assessment: No data available

**Germ cell mutagenicity****Components:**

methyl methacrylate:  
 Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
 Test system: Salmonella typhimurium  
 Method: OECD Test Guideline 471  
 Result: negative

methacrylic acid:  
 Genotoxicity in vitro : Test Type: reverse mutation assay  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

2,6-di-tert-butyl-p-cresol:  
 Genotoxicity in vitro : Test Type: reverse mutation assay  
 Metabolic activation: with and without metabolic activation  
 Result: negative  
  
 Test Type: Chromosome aberration test in vitro  
 Metabolic activation: with and without metabolic activation  
 Result: negative

Silicon, amorphous:  
 Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 473  
 Result: negative  
  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative  
  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

**Components:**

methacrylic acid:  
 Genotoxicity in vivo : Test Type: in vivo assay  
 Species: Rat (male)  
 Cell type: Somatic  
 Application Route: Inhalation

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Exposure time: 2 h  
 Dose: 0.4, 1.6, 2.8 and 4 mg/L  
 Method: OECD Test Guideline 475  
 Result: Not classified due to inconclusive data.  
 GLP: no

Test Type: dominant lethal test  
 Species: Mouse (male)  
 Application Route: Inhalation  
 Exposure time: 6 h  
 Dose: 0.405, 4.05 and 36.45 mg/L  
 Method: OECD Test Guideline 478  
 Result: negative  
 GLP: no

2,6-di-tert-butyl-p-cresol:  
 Genotoxicity in vivo

: Application Route: Intraperitoneal injection  
 Dose: 75 mg/kg  
 Result: negative

Application Route: Oral  
 Exposure time: 9 Months  
 Dose: ca 750 mg/kg  
 Result: negative

Silicon, amorphous:  
 Genotoxicity in vivo

: Application Route: Inhalation  
 Dose: 50 mg/m<sup>3</sup>  
 Result: negative

Germ cell mutagenicity-  
 Assessment

: No data available

**Carcinogenicity****Components:**

methyl methacrylate:  
 Species: Rat, male and female  
 Application Route: Oral  
 Exposure time: 2 Years  
 Dose: 6, 60, 2000 ppm  
 Frequency of Treatment: once daily  
 NOAEL: 90.3 mg/kg bw/day

Result: negative

methacrylic acid:  
 Species: Rat, male and female  
 Application Route: inhalation (vapour)  
 Exposure time: 102 weeks  
 Frequency of Treatment: 5 days/week  
 NOAEL: >= 2.05 mg/kg body weight

Method: OECD Test Guideline 451

Species: Mouse, male and female

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Application Route: inhalation (vapour)  
 Exposure time: 102 weeks  
 Dose: ca. 2.05 and 4.1 mg/L  
 Frequency of Treatment: 5 days/week  
 LOAEL: ca. 2.05 mg/l

Method: OECD Test Guideline 451

2,6-di-tert-butyl-p-cresol:  
 Species: Rat, male and female  
 Application Route: Oral  
 Result: negative

Silicon, amorphous:  
 Species: Rat, male and female  
 Application Route: Oral  
 Exposure time: 103 weeks  
 Dose: 1800 - 3200 mg/kg  
 Frequency of Treatment: 7 daily  
 Method: OECD Test Guideline 453  
 Result: negative

Carcinogenicity - Assessment : No data available

**IARC** Group 1: Carcinogenic to humans  
 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

**ACGIH** Confirmed human carcinogen

Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

Confirmed human carcinogen

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** Known to be human carcinogen  
 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)  
 (Silica, Crystalline (Respirable Size))

**Reproductive toxicity****Components:**

methacrylic acid:  
 Effects on fertility : Test Type: Two-generation study  
 Species: Rat, male and female  
 Application Route: Oral  
 Dose: 0, 50, 150, 450 mg/kg/day  
 General Toxicity - Parent: No observed adverse effect level:  
 50 mg/kg body weight  
 Fertility: No observed adverse effect level F1: 400 mg/kg body weight

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Symptoms: Reduced body weight  
 Method: OECD Test Guideline 416  
 GLP: yes

2,6-di-tert-butyl-p-cresol:

Test Type: Two-generation study  
 Species: Rat, male and female  
 Application Route: Oral  
 Dose: 25/100/500 mg/kg bw/day  
 General Toxicity - Parent: No observed adverse effect level:  
 100 mg/kg body weight  
 General Toxicity F1: No observed adverse effect level: 25  
 mg/kg body weight  
 Result: negative  
 GLP: no

**Components:**

methyl methacrylate:  
 Effects on foetal  
 development

: Species: Rat  
 Application Route: Inhalation  
 Dose: 99, 304, 1178 ppm  
 Teratogenicity: No observed adverse effect concentration F1:  
 8,300 mg/m<sup>3</sup>  
 Embryo-foetal toxicity: No observed adverse effect  
 concentration F1: 8,300 mg/m<sup>3</sup>  
 Method: OECD Test Guideline 414  
 Result: No teratogenic effects

methacrylic acid:

Test Type: Pre-natal  
 Species: Rat, female  
 Application Route: Inhalation  
 Dose: 0, 50, 100, 200 or 300 ppm  
 Duration of Single Treatment: 14 d  
 Frequency of Treatment: 7 days/week  
 General Toxicity Maternal: No observed adverse effect level:  
 200 ppm  
 Developmental Toxicity: No observed adverse effect level: >=  
 300 ppm  
 Embryo-foetal toxicity: No observed adverse effect  
 concentration F1: 300 ppm  
 Method: OECD Test Guideline 414  
 Result: No effects on fertility and early embryonic  
 development were detected.

Test Type: Pre-natal  
 Species: Rabbit, male and female  
 Application Route: Oral  
 Dose: 50, 150, 450 milligram per kilogram  
 Duration of Single Treatment: 23 d  
 Frequency of Treatment: 7 days/week  
 General Toxicity Maternal: No observed adverse effect level:  
 50 mg/kg body weight  
 Developmental Toxicity: No observed adverse effect level F1:  
 450 mg/kg body weight  
 Result: No effects on fertility and early embryonic

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development were detected.

2,6-di-tert-butyl-p-cresol:

Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Duration of Single Treatment: 7 d  
General Toxicity Maternal: No observed adverse effect level:  
240 mg/kg body weight  
Developmental Toxicity: No observed adverse effect level:  
800 mg/kg body weight  
Target Organs: spleen, Kidney

Silicon, amorphous:

Species: Mouse  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:  
1,340 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:  
1,600 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: No observed adverse effect level:  
1,350 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects

Reproductive toxicity - Assessment : No data available

**STOT - single exposure****Components:**

methyl methacrylate:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: May cause respiratory irritation.

methacrylic acid:  
Exposure routes: Inhalation  
Target Organs: Respiratory Tract  
Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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**STOT - repeated exposure**

No data available

**Repeated dose toxicity****Components:**

methyl methacrylate:

Species: Rat, male and female

NOAEL: 124.1 mg/kg

Application Route: oral (drinking water)

Exposure time: 2 years

Number of exposures: daily

Dose: 6, 60, 2000 ppm

methacrylic acid:

Species: Rat, male and female

NOEC: 352 - 1232 mg/m<sup>3</sup>

Application Route: inhalation (vapour)

Test atmosphere: vapour

Exposure time: 90 d

Number of exposures: 6 h

Dose: 70/352/1232 mg/m<sup>3</sup>

Subsequent observation period: 5 days/week

Method: OECD Test Guideline 413

GLP: yes

2,6-di-tert-butyl-p-cresol:

Species: Pig, male and female

NOAEL: &gt;= 61 mg/kg

Application Route: oral (feed)

Exposure time: daily

Method: Chronic toxicity

Silicon, amorphous:

Species: Rat, male and female

NOAEL: 7950 - 8980 mg/kg

Application Route: Ingestion

Exposure time: 4,320 h

Number of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

NOEC: 4000 - 4500 mg/m<sup>3</sup>

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 13 Weeks

Number of exposures: 7 d

Method: OECD Test Guideline 413

Repeated dose toxicity - : No data available  
Assessment



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**Aspiration toxicity**

No data available

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information****Product:**

Remarks: Solvents may degrease the skin.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:**

methyl methacrylate:

Toxicity to fish : LC50: 191 mg/l  
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): &gt; 79 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: Fish Early-life Stage Toxicity Test

methacrylic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l

End point: mortality

Exposure time: 96 h

Test Type: flow-through test

Test substance: Fresh water

Method: Fish Acute Toxicity Test

GLP: yes

Remarks: Toxic to aquatic organisms.

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**2,6-di-tert-butyl-p-cresol:**

Toxicity to fish : LC50 (Fish): 0.199 mg/l  
 Exposure time: 96 h  
 Test substance: Fresh water  
 Method: QSAR  
 GLP: no

**Silicon, amorphous:**

Toxicity to fish : LL50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: OECD Test Guideline 202

**Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>):**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
 Exposure time: 24 h

**Components:****methyl methacrylate:**

Toxicity to daphnia and other : EC50: 69 mg/l  
 aquatic invertebrates Exposure time: 48 h

**methacrylic acid:**

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
 aquatic invertebrates End point: Immobilization  
 Exposure time: 48 h  
 Test Type: flow-through test  
 Analytical monitoring: yes  
 Test substance: Fresh water  
 Method: Aquatic Invertebrate Acute Toxicity Test, Freshwater  
 Daphnids  
 GLP: yes

**2,6-di-tert-butyl-p-cresol:**

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.48 mg/l  
 aquatic invertebrates End point: Immobilization  
 Exposure time: 48 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: OECD Test Guideline 202

**Silicon, amorphous:**

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): >= 1,000 mg/l  
 aquatic invertebrates Exposure time: 24 h  
 Test Type: static test  
 Test substance: Fresh water  
 Method: OECD Test Guideline 202

**Components:****methyl methacrylate:**

Toxicity to algae/aquatic : EC50: > 110 mg/l  
 plants Exposure time: 72 h

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methacrylic acid:  
Toxicity to algae/aquatic plants

: ErC50 (Selenastrum capricornutum (green algae)): 45 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 8.2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

2,6-di-tert-butyl-p-cresol:  
Toxicity to algae/aquatic plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.24 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201  
GLP: yes

Silicon, amorphous:  
Toxicity to algae/aquatic plants

: EL50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: Fresh water  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity)

: No data available

**Components:**

methacrylic acid:  
Toxicity to fish (Chronic toxicity)

: NOEC (Brachydanio rerio (zebrafish)): 10 mg/l  
Exposure time: 35 d  
Test Type: flow-through test  
Analytical monitoring: yes  
Test substance: Fresh water  
Method: OECD Test Guideline 210  
GLP: yes

2,6-di-tert-butyl-p-cresol:

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Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l  
 Exposure time: 30 d  
 Test substance: Fresh water  
 Method: OECD Test Guideline 210  
 GLP: yes

NOEC (Fish):  $\geq$  23.8 mg/l  
 Exposure time: 70 d  
 Test substance: Fresh water

**Components:**

methyl methacrylate:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 37 mg/l  
 Exposure time: 21 d  
 Test Type: flow-through test  
 Method: OECD Test Guideline 211

methacrylic acid:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 53 mg/l  
 Exposure time: 21 d  
 Test Type: flow-through test  
 Analytical monitoring: yes  
 Test substance: Fresh water  
 Method: OECD Test Guideline 211  
 GLP: yes

2,6-di-tert-butyl-p-cresol:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 0.096 mg/l  
 Exposure time: 21 d  
 Test substance: Fresh water  
 Method: OECD Test Guideline 211  
 GLP: yes

NOEC (Daphnia magna (Water flea)): 0.069 mg/l  
 Exposure time: 21 d  
 Test substance: Fresh water  
 Method: OECD Test Guideline 211  
 GLP: yes

**Components:**

2,6-di-tert-butyl-p-cresol:

M-Factor (Chronic aquatic toxicity) : 1

**Components:**

methacrylic acid:

Toxicity to microorganisms : EC50 (Pseudomonas putida): 270 mg/l  
 Exposure time: 16.5 h  
 Test Type: static test  
 Analytical monitoring: no  
 Test substance: Fresh water  
 Method: DIN 38 412 Part 8  
 GLP: yes

2,6-di-tert-butyl-p-cresol:

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Toxicity to microorganisms : ErC50 (activated sludge): 1.7 mg/l  
Exposure time: 24 h  
Test Type: static test

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment  
Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

**Persistence and degradability****Components:**

methyl methacrylate:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d

methacrylic acid:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 3 mg/l  
Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

2,6-di-tert-butyl-p-cresol:

Biodegradability : Result: Not biodegradable

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

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BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Impact on Sewage Treatment : No data available

**Bioaccumulative potential****Components:**

methyl methacrylate:

Bioaccumulation : Bioconcentration factor (BCF): 3

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Species: Cyprinus carpio (Carp)  
 Bioconcentration factor (BCF): 330 - 1,800  
 Exposure time: 28 d  
 Method: flow-through test

**Components:**

methyl methacrylate:

Partition coefficient: n-octanol/water : log Pow: 1.38

methacrylic acid:

Partition coefficient: n-octanol/water : log Pow: 0.93 (72 °F / 22 °C)  
pH: 2.2

2,6-di-tert-butyl-p-cresol:

Partition coefficient: n-octanol/water : log Pow: 5.2  
GLP: yes**Mobility in soil**

Mobility : No data available

**Components:**

2,6-di-tert-butyl-p-cresol:

Distribution among : Koc: 8183

environmental compartments

Stability in soil : No data available

**Other adverse effects**

Environmental fate and pathways : No data available

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Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

**Hazardous to the ozone layer**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information - Product : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of contents/ container to an approved waste disposal plant.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA**

UN/ID No. : UN 1133  
Proper shipping name : Adhesives

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Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG**

UN number : UN 1133  
Proper shipping name : ADHESIVES

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****DOT Classification**

UN/ID/NA number : UN 1133  
Proper shipping name : ADHESIVES

Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 128  
Marine pollutant : no

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
alpha,alpha-dimethylbenzyl hydroperoxide	80-15-9	10	1388
methyl methacrylate	80-62-6	1000	1719

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitisation  
Specific target organ toxicity (single or repeated exposure)



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Flammable (gases, aerosols, liquids, or solids)  
 Respiratory or skin sensitisation  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Specific target organ toxicity (single or repeated exposure)

**SARA 313**

: The following components are subject to reporting levels established by SARA Title III, Section 313:

methyl methacrylate	80-62-6	>= 50 - < 70 %
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The following components are subject to reporting levels established by SARA Title III, Section 313:

methyl methacrylate	80-62-6	>= 50 - < 70 %
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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

methyl methacrylate	80-62-6
---------------------	---------

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

methyl methacrylate	80-62-6
---------------------	---------

**California Prop. 65**

WARNING: This product can expose you to chemicals including 1,1,2-trichloroethane, cumene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**The components of this product are reported in the following inventories:**

DSL	: All components of this product are on the Canadian DSL
AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory

**Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

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**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

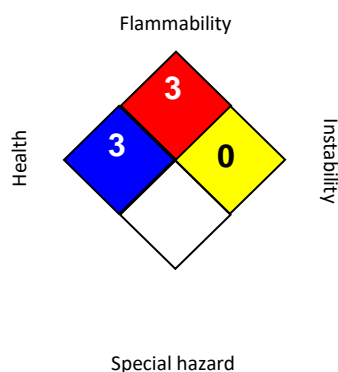
No substances are subject to TSCA 12(b) export notification requirements.

**TSCA - 5(a) Significant New Use Rule List of Chemicals**

No substances are subject to a Significant New Use Rule.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

<b>HEALTH</b>		<b>3</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

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ACGIH : USA. ACGIH Threshold Limit Values (TLV)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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