

# Nan Ya Plastics Corporation, USA

## GHS 101 Safety Data Sheet



### 1. PRODUCT IDENTIFICATION

#### MANUFACTURE:

Nan Ya Plastics Corporation USA  
2081 FM 102 Rd.  
Wharton, Texas 77488

Telephone: (281) 727-7300  
Fax: (281) 727-7309  
Emergency: (800) 424-9300 (CHEMTREC)

SDS file No: GHS101-SDS-NPCTX001  
Preparation Date: 03/01/2013  
Supersedes Date: 01/01/2012

**Product Name:** PVC Rigid Film  
**Product Code:** BBB\*,BBF\*,BDC\*,BDL\*, BFB\*, BFF\*, BFV\*, BLG\*, BLO\*, BLT\*, BPA\*, BPG\*, BPL\*, BPT\*, BSA\*, BSF\*, BSG\*, BSR\*, BSS\*, BVA\*, BVD\*, BVJ\*, BVR\*, BVS\*, BZG\*, BZBB, BZCB, BWCB, BWDB, BWWB  
*\*Could be specified in "C" – shiny on both sides, "G" – one side shiny other side matte, or "B" – matte on both sides*  
**Chemical Family:** Polymer of Chlorinated Hydrocarbon  
**CAS No.:** Not applicable  
**Formula:** Proprietary  
**Chemical Name:** Polyvinyl Chloride Film  
**Synonyms:** Plastic Film, Rigid Film  
**Technical Information:** (979) 532-5494

### 2. HAZARD IDENTIFICATION

#### Emergency Overview:

During a Fire Emergency Primary Route(s) of Exposure:  Inhalation  Ingestion  Eye  Skin Contact

#### Potential Health Effects and Symptoms of Over-Exposure

During Fire emergency, when this product is burned it may generate smoke

**Eye Contact:** Smoke from a fire emergency may cause eye irritation.  
**Skin Contact:** Hot melted plastics from a fire may cause burns to skin.  
**Inhalation:** Smoke from a fire emergency may cause respiratory irritation  
**Ingestion:** Unlikely

#### Medical Conditions Aggravated by Overexposure

Available toxicological information and the physical/chemical properties of the material suggest that there is no evidence that this product aggravates an existing medical condition.

**NFPA Rating**  
Fire - 1  
Health - 0  
Reactivity - 0  
Specific Hazard - None

**HMIS Rating**  
Flammability - 1  
Health - 0  
Reactivity - 0  
Personal Protection Index - E

<b>Carcinogenicity:</b>	<b>NPT:</b> NO	<b>IARC:</b> NO	<b>OSHA:</b> NO
-------------------------	----------------	-----------------	-----------------

### 3. PRODUCT INGREDIENTS

No.	Components	Cas No.	Percent (%)	OSHA PEL
1	PVC resin	9002-86-2	80~85%	5 mg/M <sup>3</sup> (respirable dust)
2	Proprietary	Mixture	15~20%	Not Established

### 4. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Do not rub the eyes. If irritation develops, consult a physician.  
**Skin Contact:** If burned by hot plastics, get medical attention immediately.  
**Inhalation:** If inhaled smoke from burning plastics, remove to fresh air. If symptoms develop, seek immediate medical attention.  
**Ingestion:** Unlikely  
**Notes to Physician:** Treat symptomatically and supportively.  
**Other Instructions:** Never give anything by mouth to an unconscious person.

## 5. FIRE HAZARD DATA AND FIGHTING METHOD

**Flash Point:** Not Applicable  
**Flammable Limits:** In Air (LEL, %) Not Applicable (UEL, %) Not Applicable  
**Auto-ignition:** Not Applicable  
**Extinguishing Media:** Dry Chemical, Foam, Water, or Carbon Dioxide

**Special Fire Fighting Procedures:** In the event of a fire, wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing. Evacuate all personnel from danger area. Use dry chemical, foam, water, or carbon dioxide to extinguish fire.

**Unusual Fire and Explosion Hazards:** PVC will not continue to burn after ignition without an external fire source. However, when forced to burn, the major gaseous products of the combustion of PVC are carbon monoxide, carbon dioxide, and hydrogen chloride.

## 6. ACCIDENTAL RELEASE CONTROL MEASURES

**Response to Spills:** Not Applicable

## 7. HANDLING AND STORAGE

**Handling:** Use with care. Wear Gloves if necessary when cutting or fabricating film.  
**Storage:** Store in cool dry, well ventilated area away from sources of extreme heat or fire.  
**Container Use:** Not Applicable

## 8. EXPOSURE CONTROL, PERSONAL PROTECTION RECOMMENDATIONS

**Eye Protection:** Wear safety glasses during film cutting or fabricating process.  
**Skin Protection:** Wear gloves when cutting or fabricating film by hand.  
**Respiratory Protection:** Fire Fighters should wear NIOSH approved self-contained breathing apparatus (SCBA) during fire emergency,

**Engineering Control:** Ventilation Requirements-  Local Exhaust  Specific  General

**Required work/Hygiene Procedure:** Do not eat, drink, or smoke in work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facility.

### Exposure Guidelines

No.	Components	OSHA-PEL	ACGIH-TLV
P	PVC Film	Not Applicable	Not Applicable

## 9. PHYSICAL/CHEMICAL PROPERTIES\*

**Physical Form:** Solid Sheet  
**Odor:** Insignificant  
**Boiling Point:** Not Applicable  
**Freezing Point:** Not Applicable  
**Specific Gravity:** 1.32~1.45 (Water = 1)  
**Evaporation Rate:** None (Butyl Acetate = 1)  
**% Volatile:** None  
**Color:** Clear to Opaque  
**Molecular Weight:** Ranging from 60,000 ~ 150,000  
**Melting Point:** Not Established  
**Solubility in Water:** None  
**Vapor Density:** Not Applicable (Air = 1)  
**Vapor Pressure:** Not Applicable  
**pH:** Not Applicable

\*The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Conditional to Avoid:** Fire or Extreme Heat  
**Hazardous Decomposition:** If burned it will generate carbon dioxide, carbon monoxide, and hydrogen chloride.  
**Hazardous Polymerization:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

The information provided below can be subject to misinterpretation. Therefore, it is essential the following information be interpreted by individuals trained in its evaluation.

Chemical	Toxicity Data
PVC Film	Not Applicable

## 12. ECOLOGICAL INFORMATION

---

No Data is available on the adverse effects of this product on the environment.

## 13. DISPOSAL CONSIDERATIONS

---

**Disposal Method:** It must be disposed of in accordance with Federal, State and Local environmental control regulations.  
**Recycle/Reclaim:** Recycling of PVC film should be encouraged where possible.

## 14. TRANSPORT INFORMATION

---

<b>DOT Shipping:</b>	Not Listed	<b>DOT Label:</b>	Not Applicable
<b>DOT Hazard Class:</b>	Not regulated	<b>UN/NA Number:</b>	Not Applicable
<b>Hazard Label(s):</b>	Not Applicable	<b>Hazard Placard(s):</b>	Not Applicable
<b>Packing Group:</b>	Not Applicable	<b>Bulk Packaging:</b>	Not Applicable
<b>RQ:</b>	Not Applicable	<b>Emergency Response Guide (ERG) No:</b>	Not Applicable

## 15. REGULATORY INFORMATION

---

<b>OSHA Status:</b>	Not Listed, Non-Hazardous	<b>EPA Clean Water Act Status:</b>	Not Listed
<b>EPA Clean Air Act Status:</b>	Not Listed	<b>CERCLA RQ:</b>	Not Listed
<b>TSCA Status:</b>	All ingredients are listed on TSCA Inventory (40CFR710)		
<b>SARA Title III</b>	PVC Film		

**Sec. 302\*** - None    **Sec. 313\*\*** - None    **Sec. 311/312\*\*\*** - None

\*Reportable quantity of extremely hazardous substance, Sec 302. Threshold planning quantity, extremely hazardous substance, Sec. 302

\*\*Toxic Chemical, Sec 313, Category as required by Sec. 313 (40CFR372.65C). Must be used on Toxic Release Inventory form.

\*\*\*Hazard category for SARA SEC 311/312 reporting H1=acute health hazard, H2 =chronic health hazard, P3=fire hazard, P4= sudden release of pressure hazard, P5= reactive hazard.

**RCRA Status:** It is the responsibility of the product user to determine at the time of disposal whether a material containing this product or derived from this product should be classified as a hazardous waste. (40CFR261.20~24)

### Other Regulatory Information:

Chemicals are specifically listed by individual states; other product-specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

<b>Chemical – PVC Film</b>	<b>Regulated States:</b>	NONE	<b>Regulation:</b>	NONE
	<b>International Regulation:</b>	NONE		

## 16. OTHER INFORMATION

---

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Nan Ya Plastic Corporation, USA. Nan Ya Plastics Corporation, USA, or any of its subsidiaries do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Nan Ya Plastics Corporation, USA assumes no legal responsibility for loss, damage or expense arising out of or in any way connected with, the handling, storage, use or disposal of this product.

---

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/06/2015

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name. : 37092A Resin  
Product code : 37092A Resin  
Formula : 37092A

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

Use of the substance/mixture : Adhesive

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

Advanced Adhesive Systems, Inc.  
681 North Mountain Road  
Newington CT 06111

860-953-4100

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924 INTERNATIONAL: 001-813-248-0585  
Chem-Tel (available 24 hours/day)

### SECTION 2: Hazards identification

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

##### GHS-US classification

Flam. Liq. 2 H225  
Eye Irrit. 2A H319  
Aquatic Acute 3 H402

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

Danger.

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour  
H319 - Causes serious eye irritation  
H402 - Harmful to aquatic life

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P270 - Do not eat, drink or smoke when using this product  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective clothing, protective gloves  
P314 - Get medical advice/attention if you feel unwell  
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  
P370+P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, or Foam to extinguish  
P403+P235 - Store in a cool and well-ventilated place  
P501 - Dispose of contents/container to an approved waste disposal plant, in accordance with applicable local, state, national laws  
P261 - Avoid breathing vapours  
P262 - Do not get in eyes, on skin, or on clothing

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P271 - Use only outdoors or in a well-ventilated area  
P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
P302 - IF ON SKIN: Wash skin with mild soap and water.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P363 - Wash contaminated clothing before reuse

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
methacrylic acid, stabilized	(CAS No) 79-41-4	5 - 10	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Aquatic Acute 3, H402
p-toluenesulfonyl chloride	(CAS No) 98-59-9	1.32 - 2.2	Skin Irrit. 2, H315 Eye Dam. 1, H318
2,6-di-tert-butyl-p-cresol	(CAS No) 128-37-0	< 5	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
cumene hydroperoxide	(CAS No) 80-15-9	0.96 - 1.08	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:vapour), H330 Aquatic Acute 2, H401

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Immediately consult a doctor/medical service.  
First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation or rash occurs: Consult a doctor/medical service.  
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Get medical advice/attention.  
First-aid measures after ingestion : Get immediate medical attention. Rinse mouth with water. Drink plenty of water. Do NOT induce vomiting.

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

Symptoms/injuries after inhalation : Coughing. Shortness of breath.  
Symptoms/injuries after skin contact : Causes skin irritation. Itching. Red skin. May cause an allergic skin reaction.  
Symptoms/injuries after eye contact : Moderate eye irritant. Redness of the eye tissue. Lacrimation.  
Symptoms/injuries after ingestion : No data available.  
Chronic symptoms : respiratory disorders. skin disorders. eye disorders.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : carbon dioxide (CO2), dry chemical powder, foam.  
Unsuitable extinguishing media : Do not use water jet to extinguish.

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

Fire hazard : Highly flammable liquid and vapour. Heating may cause a fire or explosion. Insoluble in water. May build up electrostatic charges: risk of ignition.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form flammable/explosive vapour-air mixture.

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reactivity : Alkalis. Amines. Moisture. Oxidizers. Reducing agents. Strong acids, bases. Ultraviolet radiation.

### 5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas.

Firefighting instructions : Exercise caution when fighting any chemical fire. If exposed to fire cool the closed containers by spraying with water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Firefighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

Other information : Hazardous combustion products: . carbon oxides (CO and CO<sub>2</sub>). Nitrogen oxides. Isocyanates. Hydrogen cyanide. smokes. Other toxic vapors.

## SECTION 6: Accidental release measures

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

General measures : Eliminate ignition sources. Ensure adequate air ventilation. Try to stop release. Use protective clothing. Use special care to avoid static electric charges. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

#### 6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Safety glasses.

Emergency procedures : Evacuate unnecessary personnel. Keep upwind. No naked flames or sparks. Seal off low-lying areas. Use personal protective equipment as required. Wash contaminated clothes.

#### 6.1.2. For emergency responders

Protective equipment : In case of insufficient ventilation, wear suitable respiratory equipment. Use chemically protective clothing. Wear recommended personal protective equipment.

Emergency procedures : Stop leak if safe to do so. Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters. Prevent soil and water pollution. Try to stop release.

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

For containment : Dam up the liquid spill. Plug the leak, cut off the supply. Tip the container on one side to stop the leakage.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Absorbed substance: shovel into open drums.

### 6.4. Reference to other sections

See also sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Keep away from Heat, sources of ignition. - No smoking. In use, may form flammable vapour-air mixture. Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Comply with the legal requirements. Do not eat, drink or smoke when using this product. Do not discharge the waste into the drain. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Observe normal hygiene standards.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

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

Technical measures : Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.

Storage conditions : Keep container tightly closed. Protect from moisture. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight., Heat sources. Store at temperatures not exceeding 37 C.

Incompatible products : amines. Oxidizing agent. Reducing agents. strong acids. Strong bases.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

Maximum storage period : 6 months @ 23C stored in original SEALED container

Storage temperature : 8 - 38 °C

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Storage area : Keep out of direct sunlight. Store away from heat. Keep only in the original container. Store in a cool area. Store in a dry area. Store in a well-ventilated place.

### 7.3. Specific end use(s)

Adhesive: component.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

37092A Resin		
ACGIH	Not applicable	
OSHA	Not applicable	
methacrylic acid, stabilized (79-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
OSHA	Not applicable	
2,6-di-tert-butyl-p-cresol (128-37-0)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OSHA	Not applicable	
cumene hydroperoxide (80-15-9)		
ACGIH	Not applicable	
OSHA	Not applicable	
p-toluenesulfonyl chloride (98-59-9)		
ACGIH	Not applicable	
OSHA	Not applicable	

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Keep concentrations well below lower explosion limits. Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment : Personal protective equipment should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling the product. Gloves. Protective clothing. Safety glasses.



Materials for protective clothing : nitrile rubber. Chemical resistant.

Hand protection : Nitrile rubber (NBR) /. Wear chemically resistant protective gloves.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Insufficient ventilation: wear respiratory protection.

Thermal hazard protection : None necessary.

Environmental exposure controls : Specific risk management measures are not required beyond good industrial hygiene and safety procedures.

Other information : Do no eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid

Appearance : gel.

Colour : Off-white

Odour : Acrylic

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Melting point	: No data available
Freezing point	: No data available
Boiling point	: 101 °C
Flash point	: 10.5 °C MMA
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 29 mm Hg @ 20 C
Relative vapour density at 20 °C	: > 1
Relative density	: 0.94 - 1
Solubility	: Insoluble in water. Water: Solubility in water of component(s) of the mixture : • methacrylic acid, stabilized: 9.8 g/100ml (20 °C) • 2,6-di-tert-butyl-p-cresol: 0.004 g/100ml (20 °C) • benzoquinone: < 0.0001 g/100ml • diethylene glycol: 100 g/100ml (20 °C, Complete) • ethylene glycol: Complete • tetrasodium ethylenediaminetetracetate: 103 g/100ml • etidronic acid: 69 g/100ml • Low Boiling point hydrogen treated naphtha: < 0.002 g/100ml • butyl glycolate: > 2 g/100ml • 2-butoxyethanol: Complete • cumene hydroperoxide: < 0.001 g/100ml • cumene: 0.005 g/100ml • 2-phenyl-2-propanol: 0.71 g/100ml • acetophenone: 0.55 g/100ml • methylmethacrylate, monomer, inhibited: 1.5 g/100ml • Poly(MMA/Butyl Acetate): insoluble • calcium carbonate: 0.0014 g/100ml • 4-methylbenzenesulfonic acid: 67 g/100ml • 1,3-butadiene/styrene,polymer: insoluble • paraffin, wax: < 0.1 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Heating may cause a fire or explosion.
Oxidising properties	: No data available
Explosive limits	: 2.1 - 12.5 vol % MMA

### 9.2. Other information

VOC content : < 50 g/l Activator and Adhesive mixed

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Alkalis. Amines. Moisture. Oxidizers. Reducing agents. Strong acids, bases. Ultraviolet radiation.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization may occur. Avoid Excessive aging, excessive heat, and inhibitor depletion.

### 10.4. Conditions to avoid

Direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. High temperature.

### 10.5. Incompatible materials

Refer to Section 10.1.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. hydrocarbons. Hydrogen Cyanide. Isocyanate containing vapors. Oxides of Nitrogen. irritating organic vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>methacrylic acid, stabilized (79-41-4)</b>	
LD50 oral rat	1060 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 1320 mg/kg bodyweight; Rat)
LD50 dermal rabbit	500 mg/kg bodyweight (Rabbit; Experimental value; Other; 500-1000 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	7 mg/l/4h (Rat)



# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>methacrylic acid, stabilized (79-41-4)</b>	
ATE US (oral)	1060.000 mg/kg bodyweight
ATE US (dermal)	500.000 mg/kg bodyweight
ATE US (vapours)	7.000 mg/l/4h
ATE US (dust,mist)	7.000 mg/l/4h
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
LD50 oral rat	890 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >6000 mg/kg bodyweight; Rat)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study; OECD 402: Acute Dermal Toxicity; >2000 mg/kg bodyweight; Rat; Experimental value)
ATE US (oral)	890.000 mg/kg bodyweight
<b>cumene hydroperoxide (80-15-9)</b>	
LD50 oral rat	382 mg/kg (Rat; Weight of evidence)
LD50 dermal rat	1200-1520,Rat; Weight of evidence
LD50 dermal rabbit	133 mg/kg bodyweight (Rabbit; Weight of evidence)
LC50 inhalation rat (mg/l)	1.37 mg/l/4h (Rat; Weight of evidence)
LC50 inhalation rat (ppm)	220 ppm/4h (Rat; Weight of evidence)
ATE US (oral)	382.000 mg/kg bodyweight
ATE US (dermal)	133.000 mg/kg bodyweight
ATE US (gases)	220.000 ppmV/4h
ATE US (vapours)	1.370 mg/l/4h
ATE US (dust,mist)	1.370 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
IARC group	3 - Not Classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Coughing. Shortness of breath.
Symptoms/injuries after skin contact	: Causes skin irritation. Itching. Red skin. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Moderate eye irritant. Redness of the eye tissue. Lacrimation.
Symptoms/injuries after ingestion	: No data available.
Chronic symptoms	: respiratory disorders. skin disorders. eye disorders.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>methacrylic acid, stabilized (79-41-4)</b>	
LC50 fishes 1	100-180,96 h; Brachydanio rerio; Lethal
EC50 Daphnia 1	100-180,24 h; Daphnia magna; Lethal
LC50 fish 2	85 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	> 130 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	45 mg/l (72 h; Selenastrum capricornutum; Growth rate)
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
LC50 fishes 1	0.199 mg/l (96 h; Pisces)
EC50 Daphnia 1	0.48 mg/l (48 h; Daphnia magna; GLP)
Threshold limit algae 1	> 0.4 mg/l (72 h; Scenedesmus subspicatus; GLP)
Threshold limit algae 2	0.363 mg/l (Algae; Chronic)
<b>cumene hydroperoxide (80-15-9)</b>	
LC50 fishes 1	14 mg/l (48 h; Leuciscus idus; GLP)
EC50 Daphnia 1	7 mg/l (24 h; Daphnia magna; Static system)
LC50 fish 2	3.9 mg/l (96 h; Oncorhynchus mykiss)
EC50 Daphnia 2	18.84 mg/l (48 h; Daphnia magna; GLP)

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>cumene hydroperoxide (80-15-9)</b>	
Threshold limit algae 1	1.2 mg/l (Microcystis aeruginosa)
Threshold limit algae 2	7.4 mg/l (Scenedesmus quadricauda)

### 12.2. Persistence and degradability

<b>methacrylic acid, stabilized (79-41-4)</b>	
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.89 g O <sub>2</sub> /g substance
ThOD	1.67 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.5329 % ThOD

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
Persistence and degradability	Not readily biodegradable in water. Biodegradable in the soil. Adsorbs into the soil. Low potential for mobility in soil. Photooxidation in the air.
Biochemical oxygen demand (BOD)	0.51 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.27 g O <sub>2</sub> /g substance
ThOD	2.977 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.17 % ThOD

<b>cumene hydroperoxide (80-15-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Highly mobile in soil.

<b>p-toluenesulfonyl chloride (98-59-9)</b>	
Persistence and degradability	Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

<b>methacrylic acid, stabilized (79-41-4)</b>	
BCF other aquatic organisms 1	3
Log Pow	0.93 (Experimental value; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
BCF fish 1	230 - 2500 (56 days; Cyprinus carpio)
Log Pow	5.1 (Experimental value)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).

<b>cumene hydroperoxide (80-15-9)</b>	
BCF other aquatic organisms 1	9
Log Pow	1.6 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>p-toluenesulfonyl chloride (98-59-9)</b>	
Log Pow	3.49
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

<b>methacrylic acid, stabilized (79-41-4)</b>	
Surface tension	0.0659 N/m (20 °C; 1.01 g/l)

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.

<b>cumene hydroperoxide (80-15-9)</b>	
Surface tension	0.028 N/m (-9 °C)

### 12.5. Other adverse effects

Effect on ozone layer	:
Effect on the global warming	: No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Dispose of contents/container to an approved waste disposal facility in accordance with applicable local, state, national laws.
Additional information	: Handle empty containers with care because residual vapours are flammable.

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT

DOT Proper Shipping Name : Adhesives  
Department of Transportation (DOT) Hazard Classes : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger  
DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60L  
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

### Additional information

Other information : No supplementary information available.  
State during transport (ADR-RID) : as liquid.

### ADR

Transport document description : UN 1133 Adhesives, 3, II, (D/E)  
Packing group (ADR) : II  
Class (ADR) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 33  
Classification code (ADR) : F1  
Danger labels (ADR) : 3 - Flammable liquids



Orange plates : An orange rectangular label with a black border. It is divided into two horizontal sections. The top section contains the number '33' and the bottom section contains the number '1133'.

Tunnel restriction code (ADR) : D/E  
LQ : 5L  
Excepted quantities (ADR) : E2

### Transport by sea

UN-No. (IMDG) : 1133  
Proper Shipping Name (IMDG) : Adhesives  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : II - substances presenting medium danger  
EmS-No. (1) : F-E  
EmS-No. (2) : S-D

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Air transport

UN-No.(IATA)	: 1133
Proper Shipping Name (IATA)	: Adhesives
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>37092A Resin</b>	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard
<b>methacrylic acid, stabilized (79-41-4)</b>	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	None
SARA Section 302 Threshold Planning Quantity (TPQ)	None
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard
SARA Section 313 - Emission Reporting	None
<b>cumene hydroperoxide (80-15-9)</b>	
EPA TSCA Regulatory Flag	All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from listing.
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	10 lb None
SARA Section 302 Threshold Planning Quantity (TPQ)	None
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard Reactive hazard
SARA Section 313 - Emission Reporting	100 %
<b>p-toluenesulfonyl chloride (98-59-9)</b>	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	None
SARA Section 302 Threshold Planning Quantity (TPQ)	None
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	None

### 15.2. International regulations

#### CANADA

<b>37092A Resin</b>	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects
<b>methacrylic acid, stabilized (79-41-4)</b>	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class E - Corrosive Material Class F - Dangerously Reactive Material

#### EU-Regulations

No additional information available

<b>cumene hydroperoxide (80-15-9)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- EEC Directive 79/831, sixth Amendment of the directive 67/548 (dangerous substances).

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

Flam. Liq. 2

H225

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Org. Perox. F	H242
Skin Corr. 1A	H314
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1B	H350
STOT SE 3	H335
Aquatic Chronic 3	H412
Full text of H-phrases: see section 16	

### Classification according to Directive 67/548/EEC or 1999/45/EC

#### 15.2.2. National regulations

##### 37092A Resin

Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.

##### methacrylic acid, stabilized (79-41-4)

All components of this product are listed or exempted from listing under:

TSCA(US), DSL(CDN), AICS(AUS), METI (JPN), ECL(KOR), PICCS(RP), IECSC(CN), HSNO(NZ)

##### cumene hydroperoxide (80-15-9)

Components of this product are listed or exempt from listing on the Canadian Domestic Substance List.

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on the AICS (the Australian Inventory of Chemical Substances).

#### 15.3. US State regulations

##### 37092A Resin()

State or local regulations

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

##### cumene hydroperoxide (80-15-9)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

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

##### p-toluenesulfonyl chloride (98-59-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

# 37092A Resin

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Full text of H-phrases::

Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	skin corrosion/irritation Category 2
H225	Highly flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life

### NFPA health hazard

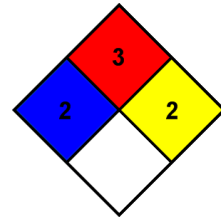
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

### NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

### NFPA reactivity

: 2 - Normally unstable and readily undergo violent decomposition but do not detonate. Also: may react violently with water or may form potentially explosive mixtures with water.



### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard

Physical : 2 Moderate Hazard

### SDS US (GHS HazCom 2012)

*This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of the Supplier's knowledge, or is obtained from sources believed by the Supplier to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. The Supplier assumes no responsibility for injuries proximately caused by the use of the Material if reasonable safety procedures are followed as stipulated in the Data Sheet. Additionally, the Supplier assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in the use of the Materials.*