



AQUA-BONDER

Underwater Adhesive *USE WET OR DRY*

Repairs made simple...

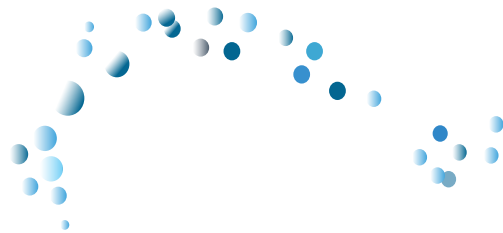
H2O Glue is a professional two-part adhesive and sealant system that works well with:

800 220 1966

410 Pike Road • Huntingdon Valley, PA 19006
Phone: 267 684 1038 • Fax: 215 357 2754
e-mail: sales@chemical-concepts.com • www.chemical-concepts.com



Product Name:	H2O Glue® AQUA-BONDER Under Water Adhesive
Manufacturer Name:	Chemical Concepts
Address:	410 Pike Road Huntingdon Valley, PA 19006.
Product Description:	Adhesive
Business Phone:	267.684.1038
Emergency Phone:	800.220.1966



SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Ingredient Percent
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	1-5 by Weight
Methyl Methacrylate Monomer	80-62-6	60-100 by Weight

Distributed by **Chemical Concepts**

Trade secret.

N/A

5-10 by Weight

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SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Flam mable. Harmful. Skin Sensitizer. Irritant.

Applies to hazardous ingredients :

Route of Exposure: Eyes. Skin. Inhalation. Ingestion

Potential Health Effects:

Eye Contact: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin Contact: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anaesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Skin Contact: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Target Organs: Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

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SECTION 4 : FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

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SECTION 5 : FIRE FIGHTING MEASURES

Fire: Flammable. Fine mists explosive below flash point.

Flash Point: 50 °F (10°C)

Flash Point Method: Tag Closed Cup (TCC)

Upper Flammable or Explosive Limit: 12.5%

Lower Flammable or Explosive Limit: 2.1%

Auto Ignition Temperature: Not determined.

Extinguishing Media: Use carbon dioxide (CO₂) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water may cause frothing.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space

Protective Equipment:	without full protective gear. If possible, contain fire run-off water.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak Response:	Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Large Spill:	Pump or shovel to storage/salvage vessels.
Other Precautions:	Add inhibitor to prevent polymerization.

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SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, general dilution ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor/particulates combination cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station. Only established PEL and TLV values for the ingredients are listed below

Ingredient Guidelines

Ingredient: Methyl Methacrylate Monomer

Guideline Type: ACGIH TLV-STEL

Guideline Information:	100 ppm
Guideline Type:	ACGIH TLV-TWA
Guideline Information:	50 ppm
Guideline Type:	OSHA PEL-TWA
Guideline Information:	100 ppm

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Odor:	Fragrant.
Physical State:	Paste.
pH:	4.5-5.5 @ 5 Percent Solution
Vapor Pressure:	28 mmHg @68°F
Vapor Density:	3.5 (air = 1)
Boiling Point:	213 °F (100.5°C)
Melting Point:	Not determined.
Solubility in Water:	Not determined.
Specific Gravity:	0.96
Evaporation Point:	3 (butyl acetate = 1)
Percent Volatile:	Not determined.
Volatile Organic Compound Content:	<50 g/L mixed.
Molecular Formula:	Varies
Molecular Weight:	Varies
Percent Solids by Weight	Not determined.

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SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Unstable
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.
Incompatibilities with Other Materials:	Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.
Hazardous Polymerization:	May occur under certain conditions.

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SECTION 11 : TOXICOLOGICAL INFORMATION

Methyl Methacrylate Monomer :

Eye Effect:	Eye - Rodent rabbit Standard Draize test : 150 mg(RTECS)
Skin Effects:	Skin - Rodent rabbit Open irritation test : 10 gm(RTECS) Skin - Rodent rabbit LD50: >5 gm/kg - [Skin and Appendages - dermatitis, other (after systemic exposure)](RTECS) Skin - Human TCLo - Lowest published toxic concentration: 2 pph - [Skin and Appendages - dermatitis, allergic (after topical exposure)](RTECS)
Ingestion Effects:	Oral - Rodent rat LD50: 7872 mg/kg - [Behavioral - muscle weakness Behavioral - coma Lungs, Thorax, or Respiration - respiratory depression] (RTECS) Oral - Rodent mouse LD50: 3625 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation Effects:	Inhalation - Rodent rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m ³ /4H - [Details of toxic effects not reported other than lethal dose value] (RTECS) Inhalation - Rodent mouse LC50 - Lethal concentration, 50 percent kill: 18500 mg/m ³ /2H - [Details of toxic effects not reported other than lethal dose value] (RTECS)

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SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.
Environmental Fate: No environmental information found for this product.

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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Hazard Class: D001

Important Disposal Information DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

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SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Adhesives

DOT UN Number: 1133

DOT Hazard Class: 3

DOT Packing Group: II

DOT Exception: ORM-D Small quantity exemption

NAERG Number: 128

Technical Name N/A

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SECTION 15 : REGULATORY INFORMATION

WHMIS Pictograms



Applies to All Ingredients :

TSCA 8(b): Inventory Status: All of the constituents of this product are either TSCA listed or exempt from listing.

Methyl Methacrylate Monomer :

Section 304 CERCLA RQ: 1000 (lbs.)

State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.

EC Number: 607-035-00-6

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

Canadian Regulations WHMIS Hazard Class(es): B2; D2B
All components of this product are on the Canadian Domestic Substances List.

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SECTION 16 : ADDITIONAL INFORMATION

HMIS:

Health Hazard:	2*
Fire Hazard:	3
Reactivity:	2
Personal Protection:	x

NFPA:

Health:	2
Fire Hazard:	3
Reactivity:	2

MSDS Revision Date: 10/10/2006
MSDS Author: Actio Corporation
Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient Name	CAS#	Ingredient Percent
Chlorosulfonated polyethylene	68037-39-8	10 -30 by Weight
Diisodecyl phthalate	26761-40-0	5- 10 by Weight
Methacrylic acid	79-41-4	5- 10 by Weight
Methyl Methacrylate Monomer	80-62-6	30 -60 by Weight
Titanium dioxide	13463-67-7	10 -30 by Weight
Trade secret.	N/A	5- 10 by Weight
Carbon tetrachloride	56-23-5	0.1 -1 by Weight

SECTION 3 : HAZARDS IDENTIFICATION

Emergency Overview: WARNING! Flammable. Harmful. Skin Sensitizer. Irritant.

Applies to hazardous ingredients :

Route of Exposure:	Eyes. Skin. Inhalation. Ingestion
Potential Health Effects:	
Eye Contact:	Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.
Skin Contact:	Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.
Inhalation:	Respiratory tract irritant. High concentration may cause dizziness, headache, and anaesthetic effects. May cause respiratory sensitization with asthma-like symptoms in susceptible individuals.
Ingestion:	Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.
Chronic Skin Contact:	Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Aggravation of Pre-Existing Conditions:	Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 : FIRE FIGHTING MEASURES


Fire:	Flammable. Fine mists explosive below flash point.
Flash Point:	50 °F (10°C)
Flash Point Method:	Tag Closed Cup (TCC)
Upper Flammable or Explosive Limit:	12.5%
Lower Flammable or Explosive Limit:	2.1%
Auto Ignition Temperature:	Not determined.
Extinguishing Media:	Use carbon dioxide (CO ₂) or dry chemical when fighting fires involving this material.
Unsuitable Media:	Water may cause frothing.

Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak Response:	Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.
Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Spill Cleanup Measures:	Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Large Spill:	Pump or shovel to storage/salvage vessels.
Other Precautions:	Add inhibitor to prevent polymerization.

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SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling.
Special Handling Procedures:	Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, general dilution ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact.
Hand Protection Description:	Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor/particulates combination cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Only established PEL and TLV values for the ingredients are listed below

Ingredient Guidelines

Ingredient: Carbon tetrachloride

Guideline Type: OSHA PEL -STEL
Guideline Information: 25 ppm Ceiling/Peak
Guideline Type: OSHA PEL -TWA
Guideline Information: 10 ppm
Guideline Type: ACGIH TLV -STEL
Guideline Information: 10 ppm
Guideline Type: ACGIH TLV -TWA
Guideline Information: 5 ppm

Ingredient: Methacrylic acid

Guideline Type: ACGIH TLV-TWA
Guideline Information: 20 ppm

Ingredient: Methyl Methacrylate Monomer

Guideline Type: ACGIH TLV-TWA
Guideline Information: 50 ppm
Guideline Type: ACGIH TLV-STEL
Guideline Information: 100 ppm
Guideline Type: OSHA PEL-TWA
Guideline Information: 100 ppm

Ingredient: Titanium dioxide

Guideline Type: ACGIH TLV-TWA
Guideline Information: 10 mg/m³

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Color: Off-white.
Odor: Fragrant.
Physical State: Paste.
pH: 3.0-3.5 @ 5 Percent Solution
Vapor Pressure: 28 mmHg @ 68°F
Vapor Density: > 1 (air = 1)
Boiling Point: 213 °F (100.5°C)
Melting Point: Not determined.
Solubility in Water: Not determined.
Specific Gravity: 1.03
Evaporation Point: 3 (butyl acetate = 1)
Percent Volatile: Not determined.
Volatile Organic Compound Content: <50 g/L mixed.
Molecular Formula: Varies
Molecular Weight: Varies
Percent Solids by Weight: Not determined.

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SECTION 10 : STABILITY and REACTIVITY

Chemical Stability: Unstable
Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.
Incompatibilities with Other Materials: Oxidizing agents (eg peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.
Hazardous Polymerization: May occur under certain conditions.

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SECTION 11 : TOXICOLOGICAL INFORMATION

Diisodecyl phtalate :

Skin Effects: Skin - Rodent rabbit LD50: >3160 mg/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)

Ingestion Effects: Oral - Rodent rat LD50: 64 gm/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Inhalation Effects: Inhalation - Rodent guinea pig LC: >130 mg/m³/6H - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Methacrylic acid :

Skin Effects: Skin - Rodent rabbit LD50: 500 mg/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Skin - Rodent guinea pig LD50: 1 gm/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)

Ingestion Effects: Oral - Rodent rat LD50: 1060 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Oral - Rodent mouse LD50: 1250 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Methyl Methacrylate Monomer :

Eye Effect: Eye - Rodent rabbit Standard Draize test : 150 mg(RTECS)

Skin Effects: Skin - Rodent rabbit Open irritation test : 10 gm(RTECS)
Skin - Rodent rabbit LD50: >5 gm/kg - [Skin and Appendages - dermatitis, other (after systemic exposure)](RTECS)
Skin - Human TCLo - Lowest published toxic concentration: 2 pph - [Skin and Appendages - dermatitis, allergic (after topical exposure)](RTECS)

Ingestion Effects: Oral - Rodent rat LD50: 7872 mg/kg - [Behavioral - muscle weakness Behavioral - coma Lungs, Thorax, or Respiration - respiratory depression] (RTECS)
Oral - Rodent mouse LD50: 3625 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Inhalation Effects: Inhalation - Rodent rat LC50 - Lethal concentration, 50 percent kill: 78000 mg/m³/4H - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation - Rodent mouse LC50 - Lethal concentration, 50 percent kill: 18500 mg/m³/2H - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Titanium dioxide :

Skin Effects: Skin - Human Standard Draize test : 300 ug/3D-I - [Mild](RTECS)

Ingestion Effects: Oral - Rodent rat TDLo - Lowest published toxic dose: 60 gm/kg - [Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes] (RTECS)

Inhalation Effects: Inhalation - Rodent rat TCLo - Lowest published toxic concentration: 1 mg/kg - [Lungs, Thorax, or Respiration - other changes Biochemical - Metabolism (Intermediary) - effect on inflammation or mediation of inflammation] (RTECS)

Cardiogenicity: IARC: Group 2B: Possibly carcinogenic to humans

Carbon tetrachloride :

Eye Effect: Eye - Rodent rabbit Standard Draize test : 500 mg/24H - [Mild](RTECS)

Skin Effects: Skin - Rodent rabbit Standard Draize test : 500 mg/24H - [Mild](RTECS)
Skin - Rodent rat LD50: 5070 mg/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Skin - Rodent rabbit LD50: >20 gm/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)
Skin - Rodent guinea pig LD50: >9400 uL/kg - [Details of toxic effects not reported other than lethal dose value](RTECS)

Ingestion Effects: Oral - Rodent rat LD50: 2350 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Oral - Rodent mouse LD50: 7749 mg/kg - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Inhalation Effects: Inhalation - Rodent rat LC50 - Lethal concentration, 50 percent kill: 46000 mg/m³/6H - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation - Rodent mouse LC50 - Lethal concentration, 50 percent kill: 9526 ppm/8H - [Details of toxic effects not reported other than lethal dose value] (RTECS)
Inhalation - Rodent mouse LC50 - Lethal concentration, 50 percent kill: 34500 mg/m³/2H - [Details of toxic effects not reported other than lethal dose value] (RTECS)

Cardiogenicity: IARC: Group 2B: Possibly carcinogenic to humans
NTP: Reasonably anticipated to be a human carcinogen

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SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

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SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Hazard Class:	D001, D019
Important Disposal Information	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

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SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Adhesives
DOT UN Number:	1133
DOT Hazard Class:	3
DOT Packing Group:	II
DOT Exception:	ORM-D Small quantity exemption
NAERG Number:	128
Technical Name	N/A

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SECTION 15 : REGULATORY INFORMATION

WHMIS Pictograms



Applies to All Ingredients :

TSCA 8(b): Inventory Status: All of the constituents of this product are either TSCA listed or exempt from listing.

Methacrylic acid :

State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the Pennsylvania State Hazardous Substances List.

EC Number: 607-088-00-5

Methyl Methacrylate Monomer :

Section 304 CERCLA RQ: 1000 (lbs.)

State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.

EC Number: 607-035-00-6

Titanium dioxide :

State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the Pennsylvania State Hazardous Substances List.

Carbon tetrachloride :

Section 304 CERCLA RQ: 10 (lbs.)

State: Listed in the State of Massachusetts Hazardous Substance List.
Listed in the New Jersey State Right to Know List.
Listed in the Pennsylvania State Hazardous Substances List.

EC Number: 602-008-00-5

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

Canadian Regulations

WHMIS Hazard Class(es): B2; D2B
All components of this product are on the Canadian Domestic Substances List.

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SECTION 16 : ADDITIONAL INFORMATION

HMIS:

Health Hazard:	2*
Fire Hazard:	3
Reactivity:	2
Personal Protection:	x

NFPA:

Health:	2
Fire Hazard:	3
Reactivity:	2

MSDS Revision Date: 10/10/2006

MSDS Author: Actio Corporation

Disclaimer:

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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