

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

A O 420 A DHESIVE Product Name:

IT102 Stock No .: ITW Plexus Manufacturer Name: 30 Endicott Street Danvers, MA 01923 Address:

(978) 777-1100 General Phone Number: **Emergency Phone** (800) 424-9300 Number:

CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300

MSDS Revision Date: June 30, 2012

MSDS Format: According to ANSI Z400.1-2004

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

Chronic Health Effects

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
2-chloro-1,3 butadiene	9010-98-4	10 - 30 by weight
Methacrylic acid	79-41-4	1 - 5 by weight
Methyl Methacrylate Monomer	80-62-6	60 - 100 by weight
Non-hazardous ingredients.	N/A	1 - 5 by weight
Trade secret.	N/A	10 - 30 by weight

SECTION 3 - HAZARDS IDENTIFICATION

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

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis,

corneal damage and permanent injury.

Skin: 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 anesthetic effects. May cause respiratory sensitization

with asthma-like symptoms in susceptible individuals.

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

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe

reddening, swelling, and possible tissue destruction. Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

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

Aggravation of Pre-Existing

Conditions:

Skin Contact:

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

Eve 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.

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.

If swallowed, do NOT induce vomiting. Call a physician or poison control Ingestion:

center immediately. Never give anything by mouth to an unconscious

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

Flammable Properties: Flammable. Fine mists explosive below flash point.

Flash Point: 50°F (10°C)

Tag closed cup (TCC) Flash Point Method:

Auto Ignition Temperature: 789°F Lower Flammable/Explosive Limit: 1.7%

Upper Flammable/Explosive

12.5%

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

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

this material.

Unsuitable Media: Water may cause frothing.

As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. Protective Equipment:

Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Unusual Fire Hazards:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

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.

Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective

equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent

polymerization.

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.

Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Storage:

Keep container tightly closed when not in use.

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting Special Handling Procedures:

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.

Hygiene Practices: Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. 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, insection and Consult with local procedures for selection, training, inspection and

maintenance of the personal protective equipment

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

Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability Skin Protection Description:

Product: AO420 ADHESIVE | Manufacturer: | Revison:06/30/2012, Version:0

data.

A NIOSH approved air-purifying respirator with an organic vapor Respiratory Protection:

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.

Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station. Other Protective:

EXPOSURE GUIDELINES

Methacrylic acid:

Guideline ACGIH:

20 ppm TLV-TWA: 20 ppm

Methyl Methacrylate Monomer:

Guideline ACGIH:

50 ppm Sensitizer.: Sen TLV-STEL: 100 ppm TLV-TWA: 50 ppm 100 ppm

Guideline OSHA: PEL-TWA: 100 ppm

Only established PEL and TLV values for the ingredients are listed. Notes:

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.

Color: off-white. Odor: Fragrant.

213°F (100.5°C) **Boiling Point:** Melting Point: -54°F (-47.7°C)

Specific Gravity: 0.96

Solubility: Not determined. Vapor Density: > 1 (air = 1) Vapor Pressure: 28 mmHg @68°F Percent Volatile: Not determined. Evaporation Rate: 3 (butyl acetate = 1)

Not determined.

Molecular Formula: Mixture Molecular Weight: Mixture Flash Point: 50°F (10°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: 789°F

VOC Content: <50 a/L mixed. Percent Solids by Weight Not determined.

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:

Hazardous Polymerization: Polymerization may occur under certain conditions.

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.

Incompatible Materials: Oxidizing agents (eg peroxides, nitrates), reducing agents, acids,

bases, azo-compounds, catalytic metals (eg copper, iron), halogens. Free radical initiators. Oxygen scavengers.

SECTION 11 - TOXICOLOGICAL INFORMATION

2-chloro-1,3 butadiene:

RTECS Number: EI9640000

Ingestion: Oral - Rat LD50: >40 gm/kg [Details of toxic effects not reported other

than lethal dose value]

Methacrylic acid:

OZ2975000 RTECS Number:

Skin: Administration onto the skin - Rabbit : 500 mg/kg [Details of toxic

effects not reported other than lethal dose value] Administration onto the skin - Guinea pig : 1 gm/kg [Details of toxic effects not reported other than lethal dose value]

Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported Ingestion:

other than lethal dose value]
Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported

other than lethal dose value]

Methyl Methacrylate Monomer:

RTECS Number: 0.75075000

Eve: Eve - Rabbit Standard Draize test.: 150 mg

Skin: Administration onto the skin - Human : 2 pph [Skin and Appendages -

Dermatitis, allergic (After topical exposure)]
Administration onto the skin - Rabbit : >5 gm/kg [Skin and

Administration onto the skin - Human : 2 pph/48H (Continuous) [Skin and Appendages - Dermatitis, allergic (After topical exposure)]
Administration onto the skin - Rabbit : 10 gm

Inhalation: Inhalation - Rat LC50: 78000 mg/m3/4H [Details of toxic effects not

reported other than lethal dose value]
Inhalation - Mouse LC50: 18500 mg/m3/2H [Details of toxic effects

not reported other than lethal dose value]

Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory Ingestion:

depression1

Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported

other than lethal dose value]

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, $\,$ Waste Disposal:

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 Number: D001

Important Disposal

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. Information:

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Adhesives DOT UN Number: 1133 DOT Hazard Class: 3 DOT Packing Group: Π

DOT Exemption: ORM-D Small quantity exemption

SECTION 15 - REGULATORY INFORMATION

2-chloro-1,3 butadiene:

TSCA Inventory Status: Listed Canada DSL: Listed

Methacrylic acid:

TSCA Inventory Status: Listed

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed Canada DSL: Listed

Methyl Methacrylate Monomer:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed

New Jersey: Listed: NJ Hazardous List; Substance Number: 1277 Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed Canada DSL: Listed

Canadian Regulations.

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

List.

SECTION 16 - ADDITIONAL INFORMATION

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

MSDS Revision Date: June 30, 2012 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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