



Section 1: Identification

GHS Product Identifier: AV-315 Microfoam
Classification: Hydrophilic Foam
Product Use: Industrial Use Only

Supplier
CPR Products, Inc.
1315 W. Lark Industrial Dr.
St. Louis, MO 63026
Phone: 636.717.0666
Fax: 636.717.0665

24 HR. EMERGENCY TELEPHONE NUMBER
Chemtrec: 800.424.9300

Section 2: Hazards Identification

GHS Classification

Classification	Category	
Skin Sens.	1	Skin sensitization
Resp. Sens.	1A	Respiratory sensitization
STOT SE	3	Specific target organ toxicity – single exposure

GHS Label Elements

Hazard pictograms:



Signal Word:	Warning
Hazards Statements:	
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
Precautionary Statements:	General:
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fume, mist, spray, vapors.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this products.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301 + P312	IF SWALLOWED: Call a poison center or physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of Contents/container to an approved waste disposal plant.

Other hazards not contributing to the classification:

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US):

No data available.

Section 3: Composition/Information on Ingredients
--

Weight %	Components	CAS-No./EINCS	Classification
50-80%	Poly {oxy(methyl-1-1,2-ethanediyl)}, alpha-hydro-omega-hydroxy, polymer with 1,3 diisocyanato-2-methylbenzene and 2,4-diisocyanato-1-methylbenzene (9CI)	(CAS #) 64814-10-4	Not Classified
30-40%	2-(2-ethoxyethoxy)ethyl acetate	(CAS #) 112-15-2 (EINCS) 203-940-1	Skin Irrit 3; H316 Eye Irrit 2A; H319
<1%	2-methyl-m-phenylene diisocyanate (TDI 2,6)	(CAS #) 91-08-7 (EINCS) 202-039-0	Skin Corr. 2; H315 Skin Sens. 1, H317 Eye Irrit. 2A; H319 Acute Tox. 1; H330 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 Acute Tox 3 (Aquatic); H402 Aquatic Chronic 3, H412
<1%	Toluene-2,4-diisocyanate	(CAS #) 584-84-9 (EINECS) 209-544-5	Acute Tox. 1 (Inhalation: dust, mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp.Sens. 1A, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412

Full text of H-phrases: See Section 16

Section 4: First-Aid Measures

Description of First-Aid Measures**First-aid Measures General**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

First-aid Measures After Inhalation

Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact

Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion

Do NOT induce vomiting. Rinse mouth. Immediately call a Poison Center or doctor/physician.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/Injuries: May cause an allergic skin reaction. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing.

Symptoms/Injuries After Inhalation: TDI vapors or mist at concentrations above the TLV can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, and lungs) causing runny nose, sore

throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with preexisting, nonspecific bronchial hyperactivity can respond to concentrations below the TLV with similar symptoms as well as asthma attack. Exposure well above the TLV may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). These effects are usually reversible. Chemical or hyper pneumonitis, with flu-like symptoms (e.g., fever and chills) has also been reported. These symptoms can be delayed up to several hours after exposure

Symptoms/Injuries After Skin Contact: Isocyanates react with skin protein and moisture, and can cause irritation, which may have the following symptoms; reddening, swelling, rash, scaling or blistering. Cured material is difficult to remove.

Symptoms/Injuries After Eye Contact: liquid, aerosols or vapors are irritating and can cause tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible (see Emergency and first aid procedures).

Symptoms/Injuries After ingestion: Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea.

Chronic Symptoms:

Exposure may produce an allergic reaction.

Indication of Any Immediate Medical Attention and Special Treatment Needed. If exposed or concerned, get medical advice and attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use dry chemical, water spray or other extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	Do not use heavy water stream. Use of heavy stream of water may spread fire.
Special Hazards Arising from Substance or Mixture	Fire Hazard: Not considered flammable but may burn at high temperatures. Reactivity: Hazardous reactions will not occur under normal conditions. Explosion Hazard: Product is not explosive. DO NOT weld, burn or cut empty containers.
Fire-fighting Procedure	Exercise caution when fighting any chemical fire. Fire fighters should wear self-contained breathing apparatus to protect against inhalation of cyanates vapors and other decomposition/combustion products. Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.
Other information	Refer to Section 9 for flammability properties.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures

Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment and Cleaning-Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

For Cleaning Up: Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities

after a spill.

Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection

Section 7: Handling and Storage

Precautions for Safe Handling

Keep away from sources of ignition - No smoking. Keep away from heat & open flame. Avoid all eye & skin contact & do not breathe vapor or mist. Always wash hands after handling. Do not eat, drink or smoke when using this product. Ensure there is adequate ventilation. Wear recommended personal protective equipment. Take precautionary measures against static discharge. Use grounded electrical/mechanical equipment.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for Safe Storage (Including Any Incompatibilities)

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Shelf life: 6 months in unopened containers.

Incompatible Products: Isocyanates react slowly with water, alcohols, amines, acids and bases.

Section 8: Exposure Controls/Personal Protection

Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

2-methyl-m-phenylene diisocyanate (TDI 2,6) (91-08-7)		
ACGIH	TWA	0.005 ppm
ACGIH	STEL	0.02 ppm
Toluene-2,4-diisocyanate (584-84-9)		
ACGIH	ACGIH TWA (ppm)	0.005 ppm
ACGIH	ACGIH STEL (ppm)	0.02 ppm
IDLH	US IDLH (ppm)	2.5 ppm
OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.14 mg/m ³
OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm

Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles, gloves, protective clothing. If insufficient ventilation: wear respiratory protection.



Personal Protective Equipment

Respiratory Protection:

Follow OSHA respirator regulation 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear a MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators when needed.

Skin and Body Protection:

Wear suitable protective clothing. Wear chemically resistant protective gloves.

Eye Protection:

Chemical goggles or safety glasses.

Environmental Exposure Controls:

Do not allow the product to be released into the environment.

Consumer Exposure Controls:

Do not eat, drink or smoke during use.

Section 9: Physical and Chemical Properties

Appearance: Light yellow liquid

Odor: Slightly sweet odor

Odor Threshold: No data available

pH: No data available

Freezing Point: No data available

Boiling Point: 537°F (281°C) at 5 mm/Hg

Flashpoint: 212°F (100°C) Pensky-Martens closed cup (ASTM-D-93)

Evaporation Rate: No data available (butylacetate=1)

Flammability: No data available

Lower Explosion Limits: Not determined

Upper explosion limits: Not determined

Vapor Pressure: less than 10-5 mm/Hg @ 77°F (25°C)

Relative Vapor Density at 20°C: 6.1

Relative Density: No data available.

Solubility in Water: Soluble. Reacts rapidly with water to liberate CO₂ gases

Partition Coefficient n-octanol/water: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: 500 CPS @ 77° F (25° C)

Oxidizing Properties: No data available

Specific Gravity: 1.07 (water = 1)

Explosive Properties: Product is not explosive; however, formation of explosive air vapor mixture is possible.

Section 10: Stability and Reactivity

Reactivity

Hazardous reactions will not occur under normal conditions.

Chemical stability

Stable under recommended handling and storage conditions (see Section 7).

Possibility of hazardous reactions

May occur, contact with moisture and other materials, which react with isocyanates, or temperatures about 400°F (204°C), may cause some polymerization.

Conditions to avoid

Contamination with water and high temperatures above 400°F (204°C).

Incompatible materials

Water, amines, strong bases, and alcohols will cause some corrosion to copper alloys and aluminum.

Hazardous decomposition products

By high heat and fire; carbon monoxide, oxides of nitrogen, traces of HCN, TDI vapors or aerosols.

Section 11: Toxicological Information

Acute Toxicity/Effects

Not Classified

Toluene-2,4-diisocyanate (584-84-9)	
LC50 Inhalation Rat (ppm)	140 ppm/4h
LC50 Inhalation Mouse (ppm)	10 ppm/4h
LD50 Oral Rat (mg/kg)	5,800 mg/kg
2-(2-ethoxyethoxy)ethyl acetate (112-15-2)	
LD50 Oral Rat	11,000 mg/kg
LD50 Dermal Rabbit	15,281 ml/kg
Skin Corrosion/Irritation	May cause minor skin irritation
Serious Eye Damage/Irritation	May cause mild eye irritation
Respiratory or Skin Sensitization	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Toluene-2,4-diisocyanate (584-84-9)	
IARC group	2B
Reproductive Toxicity	Not classified
STOT (Single Exposure)	Not classified
STOT (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified

Section 12: Ecological Information

Toxicity

No additional information available.

Persistence and Degradability:

No additional information available.

Bioaccumulative Potential:

No additional information available.

Mobility in Soil:

No additional information available.

Other Adverse Effects:

Avoid release to the environment.

Section 13: Disposal Considerations

Waste Disposal Recommendations:

Dispose of waste material in accordance with all local, regional, national, & international regulations.

Sewage Waste Recommendations:

Do not dispose of waste into sewer.

Section 14: Transport Information

DOT (Department of Transportation)

Proper Shipping Name: Liquid Resin (Non-Regulated)

Hazard Class: Non-regulated

UN Number: Not applicable

Packing Group: None

Label: Not applicable

Placard: Not applicable

NMFC (National Motor Freight Carriers)

Freight Class: 55

IMO / IMDG CODE (OCEAN) HAZARD CLASS DIVISION NUMBER: Non-regulated/Not dangerous goods

ICAO / IATA (AIR) HAZARD CLASS DIVISION NUMBER: Non-regulated/Not dangerous goods

Section 15: Regulatory Information

US Federal Regulations

SARA Section 311/312 Hazard Classes: Acute Health Hazard

2-methyl-m-phenylene diisocyanate (TDI 2,6) (91-08-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

Toluene-2,4-diisocyanate (584-84-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 302 (Specific toxic chemical listings)

Listed on SARA Section 313 (Specific toxic chemical listings)

US State Regulations

2-methyl-m-phenylene diisocyanate (TDI 2,6) (91-08-7)

U.S. – Massachusetts –RTK (Right to Know) List

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

U.S. – New Jersey - RTK (Right to Know) List

Toluene-2,4-diisocyanate (584-84-9)

U.S. - California - SCAQMD - Toxic Air Contaminants - Carcinogens

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic

U.S. - California - SDAPCD - Toxic Air Contaminants - Carcinogenic Impacts Must Be Calculated

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min.)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr.)

U.S. - Delaware - Accidental Release Prevention Regulations - Threshold Quantities

U.S. - Delaware - Accidental Release Prevention Regulations - Toxic Endpoints

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Idaho - Occupational Exposure Limits – Ceilings

U.S. - Illinois - Toxic Air Contaminant Carcinogens

U.S. - Illinois - Toxic Air Contaminants

U.S. - Louisiana - Reportable Quantity List for Pollutants

U.S. - Maine - Air Pollutants - Hazardous Air Pollutants

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Hazardous Substance List

U.S. - Minnesota - Permissible Exposure Limits - STELs

U.S. - Minnesota - Permissible Exposure Limits - TWAs

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances

U.S. - New Jersey - Environmental Hazardous Substances List

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

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)

U.S. - New York - Occupational Exposure Limits – Ceilings

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour

- U.S. - Ohio - Accidental Release Prevention - Threshold Quantities
- U.S. - Ohio - Extremely Hazardous Substances - Threshold Quantities
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels – Annual
- U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
- U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
- U.S. - Tennessee - Occupational Exposure Limits - STELs
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Vermont - Permissible Exposure Limits - STELs
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Section 16: Other Information

Skin Sens. A	H317	Skin sensitization Category 1
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 3	H335	May cause respiratory irritation.

NFPA 704M ratings:	Health 3	Flammability 1	Reactivity 1	Other
HMIS ratings: 0-Insignificant 1-Slight 2-Moderate 3-High 4-Extreme	Health 3	Flammability 1	Physical Hazard 1	Personal Protection G

The information provided in this Safety Data Sheet is correct to the best of CPR Products, Inc.'s knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. CPR PRODUCTS, INC. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. CPR Products, Inc. assumes no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product.