

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: AU4001
Product Name: ACRYLIC URETHANE HARDENER
Product Use: Paint product.
Date Published: 01/21/2013

Company Identification

TCP Global
6695 RASHA STREET
SAN DIEGO, CA 92121
Manufacturer's Phone: 1-858-909-2110

24-Hour Medical Emergency

US Phone (CHEMTREC): 1-800-424-9300
International Phone (CHEMTREC): 1-703-527-3887

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS #	Approx Wt%	Chemical name
AROMATIC NAPHTHA LIGHT 64742-95-6	1 - 5	Petroleum naphtha, light aromatic
Trade Secret : PROPRIETARY RESIN	65 - 70	HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER
METHYL PROPYLKETONE 107-87-9	20 - 25	Methylpropyl ketone
BUTYL ACETATE 123-86-4	1 - 5	n-Butyl acetate
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	Methylisobutyl ketone
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	Pseudocumene

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:

Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
May cause eye burns.

Skin Contact:
Contains a component which is a known or suspected skin sensitizer.

Acute Ingestion:
May be harmful if swallowed.

Other Effects:
May cause liver damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Overexposure may cause allergic respiratory reaction. Chronic overexposure to isocyanates may cause lung damage which may be permanent. Overexposures may cause certain individuals to develop isocyanate sensitization which causes a reaction in isocyanates below the TLV. Effects may be permanent. Possible sensitization.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
If swallowed, get medical attention immediately. If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	46° F (8° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	9 %
Autoignition temperature:	Not available.° F (° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Use water spray to cool nearby containers and structures exposed to fire. Firefighters should be equipped with self contained breathing apparatus and turn out gear.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid all personal contact.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment**Eye and face protection:**

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:

Gloves: Neoprene or other nonporous. Neoprene or plastic apron and protective clothing covering exposed skin areas.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS #	Approx Wt%	TWA (final)	Ceilings limits (final)	Skin designations
METHYL PROPYLKETONE 107-87-9	20 - 25	200 ppm TWA; 700 mg/m3 TWA		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA; 710 mg/m3 TWA		
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	100 ppm TWA; 410 mg/m3 TWA		
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	25 PPM		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS #	Approx Wt%	TWA	STEL	Ceiling limits	Skin designations
AROMATIC NAPHTHA LIGHT 64742-95-6	1 - 5	100 PPM			
METHYL PROPYLKETONE 107-87-9	20 - 25	200 ppm TWA	250 ppm STEL		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA	200 ppm STEL		
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	50 ppm TWA	75 ppm STEL		
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	25 PPM			

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	28 mmHG @ 68° F (20° C)
Vapor density (air = 1.0):	4.3
Boiling point:	213° F (101° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (weight per gallon):	8.64
Specific gravity (water = 1):	1.04
Evaporation rate (butyl acetate = 1.0):	2.3

10. STABILITY AND REACTIVITY

Stability:	This product is unstable.
Conditions to Avoid: Heat.	Heat or contact with peroxides or other catalysts.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	May occur.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Nitrogen compounds.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: II

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: II

International Maritime Organization:

Proper Shipping Name: PAINT
Hazard Class: 3
UN ID Number: UN1263
Packing Group: II

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS #	Approx Wt%	SARA 302	SARA 313	CERCLA RQ IN LBS.
BUTYL ACETATE 123-86-4	1 - 5			5000
METHYL ISOBUTYL KETONE 108-10-1	1 - 5		form R reporting required for 1.0% de minimis concentration	5000
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5		form R reporting required for 1.0% de minimis concentration	

SARA 311/312 Hazard Class:

Acute: Yes
Chronic: Yes
Flammability: Yes
Reactivity: No
Sudden Pressure: No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

PROPRIETARY RESIN	Trade Secret
BUTYL ACETATE	123-86-4
METHYL ISOBUTYL KETONE	108-10-1
METHYL PROPYLKETONE	107-87-9
1,2,4-TRIMETHYLBENZENE	95-63-6
AROMATIC NAPHTHA LIGHT	64742-95-6

Rule 66 status of product Not photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	3
Reactivity:	2
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. TCP Global assumes no obligation or liability for use of this information.

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