

ACRI-BOND UV2046 - Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Supplier: Made in Asia for ATA Pty Ltd

Distributed in Australia and New Zealand by:

Acrylic Technologies Australia Pty Ltd

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Material Name: UV 9046 Optically clear UV adhesive

Recommended Uses: UV Cured adhesive for plastic materials

2. HAZARDS IDENTIFICATION

NCAD – NOT CLASSIFIED AS DANGEROUS TO THE CRITERIA OF NOHSC AND THE AUSTRALIAN DG CODE

Specific Physical Form: Liquid
Flammability: 1
Color: Transparent Clear
Odour: Sharp irritating Acrylate flavor
Personal protection: see in section 8
Note: May cause eye irritant; irritate to skin and respiratory tract May cause skin allergy
Ingestion may cause health hazards.
Explore part: Eyes, respiratory tract, skin

POTENTIAL HEALTH EFFECTS

Inhalation: May cause irritation to nose and throat.
Skin contact: Irritating to skin. May cause allergic skin reaction
Eye contact: Vapours may irritate eyes. Contact with eyes will cause irritation.
Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders,
Acrylic acid: Respiratory disorders. Lung disease

WARNING: MAY CAUSE ALLERGIC SKIN REACTION. CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION MAY BE HARMFUL IF SWALLOWED
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Content
Prepolymer		30%-50%
High boiling methacrylate	Proprietary	20%-30%
Hydroxyalkyl methacrylate	868-77-9	5%-10%
N-Vinyl-2-Pyrrolidone	142-90-5	15%-20%
Photoinitiator	947-19-3	1%-3%

* This component is listed as Toxic Chemical

4. FIRST AID MEASURES

- Eye Contact:** Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
- Skin Contact:** Immediately flush skin with large amounts of water. Wash with soap and water. Wash clothing before reuse.
- Inhalation:** If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.
- Indigestion:** Do not induce vomiting unless instructed to do so by medical personnel. Keep individual calm. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

- Flash point:** Greater than 104°C (200°F) Tagliabue closed cup
- Autoignition temperature:** Not available
- Flammable/Explosive limits-lower %:** Not available
- Flammable/Explosive limits-upper %:** Not available

Extinguishing Media: Use fire extinguishers with class B extinguishing agent's dry powder chemical CO2.

Fire Fighting Procedures

Put on a complete set of protective clothing.

Water may not effectively extinguish fire, however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire.

Warning: While burning vapors can move along the ground and reach a source of ignition

- Special fire fighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
- Unusual fire or explosion hazards:** Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Formaldehyde. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Environment protection: Ventilate area. Keep it away from the source of fire. Do not allow product to enter sewer or waterways.

The method of cleaning: Soak up with inert absorbent (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain the spill in a closed container until disposal. Self-polymerization may occur on Sun light. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

7. HANDLING AND STORAGE

- Instruction:** Open it carefully as the container may be pressured. Keep it tightly closed.
- Storage:** For safe storage, store at or below 38°C (100°F). Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
- Incompatible products:** Refer to Section 10.
- Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Eye/Face Protection:** Avoid eye contact. Recommended are Safety Glasses with side shields. Full face shield or goggles.
- Skin Protection:** Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Gloves made from the following material(s) are recommended: Neoprene, Nitrile Rubber and Polyethylene/Ethylene Vinyl Alcohol.

Respiratory Protection: Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Select one of the approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations:

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear
Odour:	Sharp, Irritating
Vapour pressure:	Less than 10 mm Hg at 27°C (80°F)
Viscosity:	60 cps +/-15
Boiling point/range:	Greater than 200°C
Melting point/range:	Not Available
Specific gravity:	1.02
Vapour density:	Not Available
Evaporation rate:	Not Available
Solubility in water:	Slight
VOC content:	Process volatiles 1.19 %, 11.3590 gr/L; Potential volatiles 0.63 %, 6.0136 gr/L; ASTM D5403 Total volatiles 1.82 %, 17.3727 gr/L.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Silicon dioxide. Formaldehyde. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Reducing agents. Acids. Bases. Heavy metals. Free radical initiators. Copper alloys. Inert gases. Oxygen scavengers. Alkalis.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Protect from direct sunlight. Freezing conditions. UV light. Inert gas blanketing. Avoid moisture.

11. TOXICOLOGICAL INFORMATION

The effect of eye contact: Hyperemia, swelling, pain, tearing, and blurred vision.

The effect of skin contact: Skin allergies.

Product toxicity data: Acute LD50 (oral): 5000 (rat) (estimated). Acute dermal LD50 greater than 2000 mg/kg (rabbit) (estimated).

Hazardous components	Content	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Prepolymer	30%-50%	No	No	No
High boiling methacrylate	20%-30%	No	No	No
Hydroxyalkyl methacrylate	5%-10%	No	No	No
N-Vinyl-2-Pyrrolidone	15%-20%	No	No	No
Photoinitiator	1%-3%	No	No	No

12. ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

Biodegradability: Readily degradable, OECD 301 C, 14 d 94 % related to substance: methyl methacrylate
Avoid disposing directly into the cistern or sewer before being cured as typical polymer is not harmful to the environment after being cured.

Water hazard: Slightly hazardous (Self-assessment).

13. DISPOSAL CONSIDERATIONS

Product: Waste is not hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

Packaging: Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

Code of waste EW 07 02 08 waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fiber - other still bottoms and reaction residues Always check the given waste codes according to the actual conditions of manufacturing,

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

Classified as NCAD according to the Australian Code from the Transport of Dangerous Goods by Road and Rail According to the guidebook about hazardous raw material this products should not follow marking regulations.

UN number:	NCAD
Proper Shipping Name:	UV ADHESIVE (Not regulated)
Hazard class or division:	None
Identification number:	None
Packing group:	None
Marine pollutant:	None

15. REGULATORY INFORMATION

Obey the general safety regulation while dealing with chemicals.

According to the guidebook about hazardous raw material this product should not follow marking regulations.

However, Acrylic Technologies Australia Pty Ltd is using marking and labeling in accordance with NOHSC: 2012 (1994) as follows:

Hazard symbol(s)	NCAD
R-phrase(s)	R37/38: Irritating to respiratory system and skin. R43: May cause sensitisation by skin contact.
S-phrase(s)	S9: Keep container in a well ventilated place S16: Keep away from sources of ignition --- No smoking. S23: Do not breathe vapour S24: Avoid contact with skin. S37: Wear suitable gloves S38: In case of insufficient ventilation wear suitable respiratory equipment S9: Wear eye/face protection when using UV Light

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.

CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard

CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Acrylic acid (CAS# 79-10-7).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Domestic Substances List

16. OTHER INFORMATION

ATA Pty Ltd provides information in electronic form as a service to its customers. Information on the MSDS shows our current data and the most appropriate usage of processing the products in the normal condition.

The users are responsible for the results if they do not follow the instructions of MSDS and use this product or mix it with other products.

This Material Safety Data Sheet summarizes at the date of issue our best knowledge of the health and safety Hazard information of the product and in particular how to safely handle and use the product in the workplace. Since Acrylic Technologies Australia can not anticipate or control the conditions under which the product maybe used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.