



MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name:	EzFlow Ez Erase	DATE:	9/11/2007
Formula:	30-6112	REV.	00
Item#:	66112, 87-6112		

Manufacturer: American International Industries
 2220 Gaspar Ave
 Los Angeles, CA 90040

Chem-Tel: (800) 255-3924

Section 2. Composition / Information on Ingredients

Hazardous Ingredients:

Component	CAS #	%	TOXICOLOGICAL DATA
Ethyl Methacrylate	97-63-2	>99%	100ppm (OSHA-TWA/STEL) 100ppm (ACGIH - TWA/STEL)
Acetone	67-64-1	<1%	1000ppm (OSHA - TWA/STEL) 750ppm (ACGIH - TWA/STEL)
Acrylates Copolymer	23035-69-2	<1%	None Established

N/E - None Established; N/DA - No Data Available; N/A - Not Applicable

Section 3. Hazardous Identification

- May cause allergic skin reaction.
- Flammable liquid and vapor.
- May cause eye irritation.
- May cause respiratory tract irritation.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry: Eyes, skin or inhalation

Eye: Vapor concentrations may cause irritation of eyes. Liquid contact with eyes can cause irritation and possible corneal damage.

Skin: Liquid concentration may cause moderate skin irritation. Repeated or prolonged contact may cause allergic skin rashes, itching and swelling which become evident on re-exposure to this product.

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

Inhalation: High vapor concentration may irritate the respiratory system. Prolonged exposure can lead to headaches, nausea, drowsiness and unconsciousness.

Sub-Chronic Effects: Unlikely to cause a cancer hazard in man.



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Section 4. First Aid Measures

- First Aid for Eye: Immediately flush with water for at least 15 minutes, including under eyelids. Seek medical attention if discomfort persists.
- First Aid for Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if discomfort persists.
- First Aid for Inhalation: Remove to fresh air. If having breathing difficulty, give oxygen. If breathing has stopped, give artificial respiration. Get medical help if discomfort persists.
- First Aid for Ingestion: Rinse mouth out with water. Only induce vomiting if directed by physician. Never give anything by mouth to an unconscious person. Seek prompt medical attention.

Section 5. Fire Fighting Measures

- Flash Point (°F/°C): 54°F/12°C
- Flammable Limit (vol%): LEL: 1.8%
UEL: N/DA%
- Auto-ignition Temp. (vol%): 781°F/416°C
- Extinguisher Media: Foam, Carbon Dioxide, Dry Chemical
- Fire Fighting Instructions: Wear self-contained breathing apparatus and full protective gear. Water may be ineffective unless used as a fine spray or fog. Use water spray to cool the exposed containers of methacrylate monomer.
- Unusual Hazards: Vapors may travel to source of ignition and flash back. Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging.

Section 6. Accidental Release Measures

- Spill or Release Procedures: Eliminate all sources of heat and ignition. Use absorbent material for spills and dike it, wash spill material into retaining containers. Place containers in a well ventilated area. Consult an expert on disposal regulations. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container. Do not use combustible materials such as sawdust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable



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quantities. the toll free number for the US Coast Guard National Response Center is (800) 424-8802. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and flush spills away from exposures.

Section 7. Handling and Storage

- Handling:** Keep away from heat, sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use adequate ventilation. Ground all metal containers when transferring and use explosion-proof equipment. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash skin thoroughly after handling.
- Storage:** Store in a cool, dry area. Keep container closed when not in use. Store in ambient temperatures out of direct sunlight. Store in a well ventilated place. Store in accordance with National Fire Protection Association recommendations. Maintain air space inside storage containers. Inhibitor requires air (oxygen) contact to function. Check inhibitor levels after 3 months and return to original level.
- Explosion Hazard:** Avoid ignition sources or excessive temperatures. Heat can induce polymerization with rapid release of energy. Closed containers may rupture explosively. Spontaneous polymerization may occur with prolonged aging.

Section 8. Exposure Controls / Personal Protective Equipment

- Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eye facility and safety shower. Use process enclosures local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.
- General:** To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product. Provide eye wash stations and safety showers. wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC
- Eye Protection:** Wear safety glasses. Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.
- Skin Protection:** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Neoprene and Nitrile rubber is better than PVC



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Personal Respirators (NIOSH Approved): A NIOSH/MSHA approved air-purifying respirator with an organic vapor 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. Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions. Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Section 9. Physical and Chemical Properties

Appearance @ 25°C:	Clear colorless liquid	Viscosity (RVT):	N/DA, mPAS @ 20°C
Odor @ 25°C:	Sharp ester-like	Vapor Pressure:	mm Hg: 15 @ 20°C
pH	Not applicable	Vapor Density:	>3.9 (Air = 1)
Specific Gravity:	0.918	Evaporation Rate:	N/DA
Ignition:	Not applicable	% Volatiles:	W/W %: 99+
Boiling Point:	244°F/118°C		
Solubility in Water	N/DA @ 20°C		

Section 10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Hazardous Decomposition Products:
Oxides of carbon when burned.

Incompatibility (Materials to Avoid):
Reducing and oxidizing agents and UV light.

Hazardous Polymerization:
May occur

Conditions to Avoid: Temperatures above 40°C, oxidizing or reducing agents, peroxides and amines, storage in absence of inhibitor, and inadvertent addition of catalyst.

Section 11. Toxicological Information

Acute Oral Toxicity: (Rat) LD50: 13,468mg/kg

Acute Dermal Toxicity: (Rabbit) LD50: 10,000mg/kg



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Acute Inhalation Toxicity: (Rat) LD50: 4-hour LC 50: 8300ppm

Mutagenicity: The compound does produce genetic damage in mammalian cell cultures, but has not been tested on animals

Section 12. Ecological Information

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated. Do not allow to enter drinking water supplies, wastewater, or soil.

Section 13. Disposable Considerations

Dispose of diking materials and absorbent in compliance with State, Local, and Federal regulations. Residual vapors may explode on ignition; do not cut, drill, or weld on or near the container. Mix with compatible chemical which is less flammable and incinerate. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements. For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14. Transportation Information

<DOT Information> (49 CFR 172)

Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl methacrylate, acetone), 3, UN1993, PGII
Identification Number:	UN1993
Marine Pollutant:	no
Special Provisions:	T8 , T31
Emergency Response Guidebook (ERG)#:	128

IATA (DGR):

Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl methacrylate, acetone), 3, UN1993, PGII
Class or Division:	3
UN or ID Number:	UN1993
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	3L

IMO (IMDG) :

Proper Shipping Name:	Flammable liquids, n.o.s., (ethyl methacrylate, acetone), 3, UN1993, PGII
Class or Division:	3.2
UN or ID Number:	Un1993



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Special Provisions & Stowage/Segregation: None
Emergency Schedule (EmS)#: 3-07

Other information: Flash Point = 12°C

Section 15. Regulatory Information

US Federal Regulations:

Clean Air Act: This product contains the following hazardous air pollutants (HAPs): None
HAP/ODS: There are no ODS's (ozone depleting substances) as defined by the U.S. Clear Air Act

Clean Water Act: This product contains the following Priority Pollutants and Hazardous Substances as defined by the CWA: None
Priority Pollutant / Hazardous Substance:

FDA: Food Packaging Status: This product has not been cleared by the FDA for use in food packaging and /or other applications as an indirect food additive.

Occupational Safety and Health Act: This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its Hazards are: Immediate (acute) health hazard & Fire hazard

RCRA: This product contains chemicals condiseder to be hazardous waste under RCRA (40 CFR 261): Ethyl Methacrylate CAS#97-63-2, RCRA Code: U118; Acetone CAS-67-64-1, RCRA Code: U002; Characteristic of Ignitibility: RCRA Code: D001

SARA Title III: Section 302 (TPQ): This product contains no chemicals regulated under Section 302 as extremely hazardous substances that carry a TPQ.

SARA Title III: Section 302 (TPQ): This product contains chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List): Ethyl Methacrylate CAS#97-63-2, RQ(lbs): 1000; Acetone CAS#67-64-1, RQ(lbs): 5000

SARA Title III: Section 311-312: This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are: Immediate (acute) health, Fire Hazard

SARA Title III: Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Acetone CAS# 67-64-1

TSCA Section 8(b): Inventory: This product contains chemcials listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA

State Regulations:

CA Right-to-know Law: Acetone CAS#67-64-1



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CA No Significant Risk None.

Rule:

MA Right-to-know Law: Ethyl Methacrylate CAS#97-63-2, Acetone CAS# 67-64-1

NJ Right-to-know Law: Ethyl Methacrylate CAS#97-63-2, Acetone CAS# 67-64-1

PA Right-to-know Law: Ethyl Methacrylate CAS#97-63-2, Acetone CAS# 67-64-1

FL Right-to-know Law: Ethyl Methacrylate CAS#97-63-2, Acetone CAS# 67-64-1

MN Right-to-know Law: Ethyl Methacrylate CAS#97-63-2, Acetone CAS# 67-64-1

International Regulations:

CDSL: Canadian Ethyl methacrylate CAS#97-63-2 is on the DSL List. WHMIS - B2, D2B. Acetone CAS#67-64-1

Inventory (on Canadian is on the DSL List. WHMIS - n/da
Transitional List)

EINECS: European Inventory

HAZARD SYMBOLS: Xi, F: Irritant, Highly Flammable

RISK PHRASES: R11: highly flammable, R36/37/38: Irritating to eyes, respiratory system and skin, R43: May cause sensitization by skin contact, R66: Repeated exposure may cause skin dryness or cracking, R67: Vapours may cause drowsiness & dizziness.

SAFETY PHRASES: S9: keep container in a well ventilated place, S16: keep away from sources of ignition- no smoking, S29: do not empty into drains, S33: take precautionary measures against static discharges, S36/37/39: wear suitable protective clothing, gloves and eye/face protection, S45: in case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)

Section 16. Other Information

HMIS:

Health=2

Flammability=3

Reactivity=1

NFPA:

Health=2

Flammability=3

Reactivity=1