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**MATERIAL SAFETY DATA SHEET**

DATE: 07/09/03

**Section 1 HAZARD RATING**

PACER TECHNOLOGY

3

2 x 0

**PRODUCT IDENTIFICATION: ZIP KICKER ACCELERATOR FOR SUPER GLUES**

**Section 2 - HAZARDOUS INGREDIENTS INFORMATION:**

Hazardous Components (Common Names, CAS Number)	OSHA PEL	ACGIH TLV	OTHER LIMITS	% OPTION
Aliphatic Petroleum (64742-89-8)	300ppm	300ppm	TLV/STEL=400ppm	80-100%
Alkyl Toluidines (99-97-8)	NE	NE	NE	6-12%
Xylene (1330-20-7) *	100ppm	100ppm	TLV/STEL=150ppm	2-6%
Ethylbenzene (100-41-4) *	100ppm	100ppm	TLV/STEL=125ppm	1-3%

- This ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments & Reauthorization Act of 1986 (SARA) and 40 CFR 372.

Note: Product contains a bittering agent to discourage ingestion via drinking.

**Section 3 - PHYSICAL/CHEMICAL CHARACTERISTICS:**

Boiling Point: 235-284F	Specific Gravity (H2O=1):	0.77
Vapor Density (Air=1): 3.8	Melting Point:	NE
Vapor Pressure (mm Hg): 30 @ 100F	Evaporation Rate (Butyl Acetate=1):	1.2
Solubility in Water: Negligible	V.O.C.:	770 g/L
Appearance & Odor: Water-white to straw colored liquid with hydrocarbon odor.		

**Section 4 - FIRE AND EXPLOSION HAZARD DATA:**

Flash Point (Method Used): 57 F (TCC) Flammable Limits: LEL: 1.0 UEL: 7.0  
Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide. Do not use direct stream of water as product may reignite on surface of water.  
Special Fire Fighting Procedures: Warning - FLAMMABLE! Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves & rubber boots), inc. a positive pressure NIOSH-approved self-contained breathing apparatus. Cool fire exposed containers with water.  
Unusual Fire and Explosion Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup, which could result in container rupture.

**Section 5 - REACTIVITY DATA:**

Stability: Unstable \_\_ Stable XX Conditions to Avoid: heat, sparks & open flames.  
Incompatibility (Materials to Avoid): Avoid strong oxidizing agents.  
Hazardous Decomposition Products: Carbon monoxide & unidentified organic compounds may be formed during combustion.  
Hazardous Polymerization: May Occur \_\_ May Not Occur XX

**Section 6 - HEALTH HAZARD DATA:** Route(s) of Entry:

Inhalation:(rat)4hrLC50=3400ppm Skin: (rat)DermalLD50=>4ml/kg Ingestion: (rat)OralLD50=>8ml/kg  
Health Hazards (Acute and Chronic):  
Acute - mildly irritating to eyes & skin, nose, throat & respiratory tract, early to moderate CNS depression may cause giddiness, headache, dizziness & nausea.  
Chronic - in extreme cases, unconsciousness, aspiration pneumonitis may be evidenced by coughing, labored breathing & cyanosis (bluish skin), in extreme-severe cases death may occur.  
Carcinogenicity: NTP: No IARC Monographs: Yes OSHA Regulated: No  
 Ethylbenzene = 2B

**WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.**

**MATERIAL SAFETY DATA SHEET      ZIP KICKER ACCELERATOR FOR SUPER GLUES**

**Signs and Symptoms of Exposure & First Aid Procedures:**

Eye contact -irritation upon direct contact. Immediately flush eyes with water for 15 min. Get medical attention.

Skin contact -irritation upon direct contact. Remove contaminated clothing and wash before reuse. Wash affected areas with water, followed by soap & water. If irritation occurs, get medical attention. Prolonged or repeated contact can cause dermatitis in sensitive individuals.

Inhalation -vapors may be irritating to nose, throat & respiratory tract. Remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Ingestion -do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention. Product contains a bittering agent to discourage ingestion via drinking.

NOTE TO PHYSICIAN: If more than 2.0ml/kg has been ingested & vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration; if symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

Medical Conditions Generally Aggravated by Exposure: Preexisting skin disorders.

**Section 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:**

Steps to Be Taken in Case Material is Released or Spilled: Warning - flammable! Ventilate area and remove all sources of ignition. Remove all unprotected personnel from hazard area. Avoid skin contact & breathing of vapors by using appropriate respirator & protective safety equipment. Confine & remove with inert absorbent. Dispose of absorbed material & water run-off in accordance with applicable federal, state, and local regulations.

Waste Disposal Method: Dispose of water flush solutions & absorbed material in non-leaking containers as hazardous waste according to all applicable regulations.

Precautions to Be Taken in Handling and Storing: Keep liquid & vapor away from heat, sparks & flame. Do not store near any ignition sources. Keep containers closed when not in use & use with adequate ventilation. Use wires to ground all transfer containers & equipment.

Other Precautions: Static electricity may create a fire hazard: bond & ground all equipment. Dispose of used containers as hazardous waste.

**Section 8 - CONTROL MEASURES:**

Respiratory Protection (Specify Type): Use a NIOSH-approved respirator in absence of proper ventilated environment. If needed, use air-purifying respirator for organic vapors when exposure may exceed occupational exposure limits.

Ventilation: Local Exhaust: Good    Mechanical (General): As needed

Protective Clothing or Equipment: Safety glasses/goggles, chemical-resistant (ie. nitrile or polyvinyl alcohol material) gloves and other safety equipment to minimize contact.

Work/Hygienic Practices: Avoid direct contact with liquid. Wear protective safety equipment as necessary. Wash hands with soap & water and air-dry then launder any contaminated clothing before reuse.

NE = Not established

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