



MATERIAL SAFETY DATA SHEET
STR-2100 Adhesive

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Products Name: STR 2100
Chemical Family: Synthetic elastomers, resins and solvents
Chemical Name: Polychloroprene solvent adhesive
Applications: Rubber Adhesive
Supplier's Name: IMTECH Rubber Products, Inc.
1355 W. Main St. Elko, NV. 89801
Phone: (800) 738-0308 Fax: (877) 638-0308

Prepared by: IMTECH Rubber Products, Inc.
Revision Date of MSDS: June 02, 2010
24 Hour Emergency Telephone Number: 800-255-3924

Section 2- COMPOSITION / INFORMATION ON INGREDIENTS

	CAS No.	Percentage (W/W)	Exposure Limits	
			ACGIH	OSHA
Ethyl Acetate	141-78-6	25 – 45	400 ppm TLV	400 ppm TWA
Cyclohexane	110-82-7	25 – 45	100 ppm TLV	300 ppm TWA
Polychloroprene	25053-30-9	10 - 25	N.A.	N.A.
Resin, polymer with phenol 900R-ECR - Rev. 2	68083-03-4	5 - 15	N.A.	N.A.

Section 3 - HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: High vapor concentration will cause eye irritation.

Skin Contact: Repeated or prolonged contact may cause defatting and drying of the skin which may result in skin irritation and dermatitis.

Inhalation: High concentrations may cause drowsiness and irritation of the eyes or respiratory tract. Excessive inhalation causes headache, dizziness, nausea and incoordination.

Ingestion: Harmful if swallowed. May cause irritation of the mouth, throat and esophagus. Product has laxative properties and may result in abdominal cramps and diarrhea.

Section 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with gently flowing water for at least 15 minutes or until the chemical is removed. Hold eyelids open during flushing. Take care not to rinse the contaminated water into the unaffected eye or face. Seek immediate medical attention.
Skin Contact:	Remove contaminated clothing, including shoes, after flushing with water has begun. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention.
Inhalation:	If symptoms are experienced, remove source of contamination and, move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. In situations where administering oxygen is appropriate, first aid administrator must be trained in the safe use and handling of oxygen. It is preferable to administer oxygen under a doctor's supervision or advice. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Obtain medical attention IMMEDIATELY.
Ingestion:	Seek immediate medical attention. Do NOT induce vomiting. Do not attempt to give anything by mouth to an unconscious or convulsing person. IMMEDIATELY contact local Poison Control Centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid aspirating the liquid into the lungs. Administer artificial respiration if breathing has stopped. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately.
Note to Physician:	Treatment based on sound judgment of physician and individual reactions of patient.

Section 5 - FIRE FIGHTING MEASURES

Flash Point:	-4 °C to -20 °C
Flash Point Method:	(Closed cup)
Auto Ignition Temp:	245 °C To 485 °C
Flammable Limits in air (%):	Lower: 1.3% Upper: 11.5%
Extinguishing Media:	Use DRY Chemicals. CO2. alcohol foam or water spray. This material may produce a floating fire hazard in extreme fire conditions.
Special Exposure Hazards:	Flammable Liquid. Isolate and restrict area access. Stop leak only if safe to do so. Move containers from fire area if you can do so without risk. Fight fire from a safe distance and from a protected location. Use fine water spray or fog to control fire spread and cool adjacent structures or containers. This material may produce a floating fire hazard in extreme fire conditions. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations. Do not allow runoff to enter waterways or sewer.
Hazardous Decomposition/ Combustion Materials:	A Complex mixture of airborne solids, liquids, gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.



Special Protective Equipment: Wear protective clothing and self-contained breathing apparatus. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of an SCBA is optional.

NFPA RATINGS: HEALTH 1; FLAMMABILITY 3; INSTABILITY: 0
HMIS RATINGS: HEALTH 1; FLAMMABILITY 3; INSTABILITY: 0

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult Local authorities.

Procedure for Clean Up: Flammable liquid. Isolate hazard area and restrict access. Stop leak only if it is safe to do so. Eliminate all sources of ignition and work only with non-sparking tools. Small Spills: soak up with non-combustible absorbent material and scoop into containers. Large Spills: Prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material. Place in appropriate container. Confirm suitability of any material before using. Notify applicable government authority if release is reportable or could adversely affect the environment. Ventilate the area thoroughly.

Section 7 – HANDLING AND STORAGE

Handling: Flammable. For Industrial Use Only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. DO NOT handle or store near an open flame, heat, or other sources of ignition. Fixed equipment as well as transfer containers and equipment should be grounded to prevent accumulation of static charge. DO NOT pressurize, cut, heat or weld containers. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personal protective equipment. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≥ 10 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Extinguish any naked flames.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Keep containers tightly closed. Store out of direct sunlight and on an impermeable floor.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust ventilation as required to maintain exposure to within applicable limits. Use explosion proof equipment. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Ventilate low lying areas such as sumps or pits where dense vapors may collect.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown



concentration, use a NIOSH approved supplied air respirator.

Gloves: Impervious gloves. Butyl rubber gloves. Silver Shield(R). 4H(R).

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protective Data: Ensure that eyewash stations and safety showers are proximal to the workstation location.

Ingredients Exposure Limit Exposure Limit Immediately Dangerous to Life ACGIH OSHA or Health – IDLH

Ethyl Acetate =400 ppm TWA 400 ppm TWA 2,000 ppm

Cyclohexane =100 ppm STEL 300 ppm TWA 1,300 ppm

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.
Color: Clear
Odor: Sweet Ketone
Specific Gravity: 0.9 (water = 1)
Boiling Point: 78 to 81°C
Melting/Freezing Point: Not available %
Volatility: Not available
Vapor Pressure: 10.33 kPa (77.5 mm Hg.) @ 20°C
Vapor Density: 2.41 (Air = 1.0)
Viscosity: Not Available
VOCs: 50 - 85%
Odor threshold: Not available
Solubility: Partially soluble in water.
Evaporation Rate: > 4.1

Section 10 – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures, sparks, open flames and all sources of ignition.
Materials to Avoid: Oxidizing agents. Strong bases. Strong alkalis. Reducing agents. Amines, ammonia, aldehydes. Halogens, Hydrogen peroxide.
Hazardous decomposition Products: Peroxides.

Section 11 – TOXICOLOGICAL INFORMATION

Principle Routes of Exposure:

Ingestion: Harmful if swallowed. May cause irritation of the mouth, throat and esophagus. Product has laxative properties and may result in abdominal cramps and diarrhea.



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Inhalation: High concentrations may cause drowsiness and irritation of the eyes or respiratory tract. Excessive inhalation causes headache, dizziness, nausea and incoordination.

Eye Contact: High vapor concentration will cause eye irritation.

Acute Test of Product: **Ethyl Acetate** **Cyclohexane**

Acute Oral LD50: 5,600 mg/kg (Rat) Not available.

Acute Dermal LD50: > 20 ml/kg (Rabbit) Not available

Skin Contact: Repeated or prolonged contact may cause defatting and drying of the skin

	Ecotoxicological Information:	
	Ecotoxicity – Fish Species Data	Ecotoxicity Freshwater Algae
Ethyl Acetate:	LC50 (Pimephales promelas) 230 mg/L LC50 (Oncorhynchus mykiss) 484 mg/L	EC50 (Scenedesmus subspicatus) 3,300 mg/L
Cyclohexane:	LC50 (Lepomis macrochirus) 34.72 mg/L LC50 (Pimephales promelas) 4.53 mg/L	EC50 (Scenedesmus subspicatus) 500 mg/L
Polychloroprene:	Not available	Not available.
Resin, polymer with phenol:	Not available	Not available.
Other Information:	No other remarks.	

Section 12- ECOLOGICAL INFORMATION

Disposal of Waste Method: Disposal of all wastes must be done in accordance with local, state/provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

Section 13 – DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with local, state/provincial and federal regulations.



Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

Section 14 – TRANSPORT INFORMATION

Proper Shipping Name: Adhesive (Containing Flammable Liquid) **TDG (IATA and IMO):** Cl. 3 UN 1133 PG. II

Hazard Label / Placards: FLAMMABLE

Section 15 – REGULATORY INFORMATION

U.S. TSCA Inventory Status: All compounds of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All compounds of this product are either on the Domestic Substances List (DSL); the Non- Domestic Substances List (NDSL) or exempt.

Note: Not available.

US Regulatory Rules	CECLA/SARA	SARA (311, 312)	CERCLA/SARA
	Section 302:	Hazard Class:	Section 313:
STR-2100 Components:	Not Listed	Listed	Not Listed
California Proposition 65:	Not Listed.		
MA Right to Know List:	Listed.		
New Jersey Right-to-know List:	Listed.		
Pennsylvania Right to Know List:	Listed.		
WHMIS Hazardous Class:	B2 FLAMMABLE LIQUIDS D2B TOXIC MATERIALS		

NFPA RATINGS: HEALTH 1; FLAMMABILITY 3; INSTABILITY: 0

HMIS RATINGS: HEALTH 1; FLAMMABILITY 3; INSTABILITY: 0

Section 16 – OTHER INFORMATION

All employees or contractors etc. who use this product must have access to this Material Safety Data Sheet.

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Normac Adhesive Products Inc. knowledge or is obtained from sources believed by Normac Adhesive Products Inc. to be accurate. Normac Adhesive Products Inc. makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use or reliance on same. Customers are encouraged to conduct their own tests.

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****END OF MSDS****