

MATERIAL SAFETY DATA SHEET (US)

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		PREPARATION DATE:	December 2007

SECTION 1: IDENTIFICATION

PRODUCT NAMES:	Flex-Z 1.0	PRODUCT CODES:	FZ1RS
	Flex-Z 2.0		FZ2RS
	Flex-Z 3.0		FZ3RS
	Flex-Z 4.0		FZ4RS
	Flex-Z 5.0		FZ5RS
	Flex-Z 6.0		FZ6RS
DOT SHIPPING NAME:	RESIN SOLUTION	DOT ID NUMBER:	UN1866
DOT HAZARD CLASSIFICATION:	FLAMMABLE LIQUID		
PRODUCT APPEARANCE & ODOR:	CLEAR ODORLESS LIQUID		

SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %W/W	OSHA/TWA	ACGIH/TLV
Aliphatic Hydrocarbon	64741-66-8	> 90%	100 ppm	100 ppm [PEL]
Proprietary Resin	N.E.	< 10%	N.E.	N.E.

These products contain no hazardous air pollutants (HAPs) nor any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372. All components are listed in the TSCA inventory.

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING RANGE:	208 - 219 °F	EVAPORATION RATE [BuAc = 1]:	4.3
SPECIFIC GRAVITY:	0.70	VAPOR PRESSURE [mm Hg]:	36.9 mm Hg @ 68°F
SOLUBILITY IN WATER:	Negligible	VAPOR DENSITY [Air = 1]:	3.9
REACTION WITH WATER:	Slowly Polymerizes	VOLATILES:	>90 %WW

SECTION 4: REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY:	Strong acids/bases, oxidizers.
CONDITIONS TO AVOID:	All sources of ignition, heat, flame, etc. [see Section 5 & 10]
DECOMPOSITION PRODUCTS:	Combustion may yield carbon monoxide/dioxide, fumes, smoke
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION 5: FIRE AND EXPLOSION INFORMATION

FLASH POINT [T CC]: >20 °F EXPLOSIVE LIMIT [% Vol.] UPPER 6.3 LOWER 0.9

NFPA HAZARD CLASS HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

UNUSUAL FIRE/EXPLOSION HAZARDS: This material is **FLAMMABLE**, and may be ignited by heat, sparks, or other sources of ignition. Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. Vapor/air explosion hazard indoors/outdoors or in sewers. Vapors are heavier than air, and may accumulate in low areas. If container is not cooled properly, it may explode in the heat of a fire.

EXTINGUISHING MEDIA: Dry chemical, foam.

SPECIAL FIRE-FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors, and cooling equipment. Avoid spreading burning liquid with water used for cooling purposes.

SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY

EYE CONTACT: May cause mild eye irritation. Direct contact with the liquid or exposure to the vapors or mists may cause stinging, tearing, and redness.

SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated contact may cause redness, burning, and drying and cracking of the skin. No lasting harmful effects are known.

INHALATION: While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause irritation of the nose and throat, and signs of nervous system depression [eg, headache, dizziness, loss of coordination, and fatigue]. Respiratory symptoms associated with pre-existing lung disorders [eg, asthma-like conditions] may be aggravated by exposure to this material.

INGESTION: Ingestion of excessive quantities may cause irritation of the digestive tract, and cause signs of nervous system depression. Aspiration hazard - can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC, or OSHA. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES

EYE CONTACT: Flush with lots of clean water. If irritation or redness develops and persists, seek medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth as this material can enter lungs and cause severe lung damage. If victim is drowsy or unconscious, place head on left side with the head down. If possible, do not leave victim unattended. Seek medical attention.

SECTION 8: SPECIAL PROTECTION INFORMATION

VENTILATION: Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

RESPIRATORY PROTECTION: Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

EYE PROTECTION: Approved eye protection [e.g., goggles with side shields] is recommended to safeguard against potential eye contact, irritation, or injury.

COMMENTS: A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

SECTION 9: SPILL AND LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

FLAMMABLE. Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean-up of any spilled material is recommended.

WASTE DISPOSAL METHODS:

Dispose of product in accordance with local, state, and federal regulations.

SECTION 10: STORAGE AND SPECIAL PRECAUTIONS

HANDLING & STORAGE PRECAUTIONS:

Use and store this material in a cool, dry, well-ventilated area, away from heat and all sources of ignition. Keep containers closed. Store only in approved containers. Keep away from incompatible materials [see Section 4]. Protect containers against physical damage. Do not enter confined spaces, such as tanks, without following proper entry procedures such as ASTM D-4276. The use of respiratory protection is advised when concentrations exceed the established exposure limits [see Section 2]. Do not wear contaminated clothing or shoes. Use good personal hygiene practice. "Empty" containers retain residue [liquid and/or vapor] and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other ignition sources. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to a drum reconditioner, or disposed of in an environmentally safe manner, and in accordance with government regulations. Refer to OSHA regulations ANSI Z49.1 before working on or in tanks which contained this product.

SECTION 11: PRECAUTIONARY WARNING

WARNING !

FLAMMABLE . ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [eg, STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER .

SECTION 12: DOCUMENTARY INFORMATION

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