



CIRCUIT COAT

SAFETY DATA SHEET

DATE OF PREPARATION

July 12, 2014

SECTION 1- PRODUCT AND COMPANY INFORMATION

PRODUCT NUMBER

T1G-CIC

PRODUCT NAME

SDS-Bionic Circuit Coat

Regulatory Information 800-424-8802

Medical Emergency 911

Transportation Emergency* 800-424-9300

*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

SECTION 2-HAZARDS IDENTIFICATION

NFPA Est.	HMIS Est.
Health: 2	Health: 2
Fire: 3	Fire: 3
React: 1	React: 1
Personal Protection	C

Flammable Irritant



ROUTES OF EXPOSURE

INHALATION of vapor or spray mist

EYE or SKIN contact with the product, vapor, or spray mist

EFFECTS OF OVEREXPOSURE

EYES: irritation, redness

SKIN: irritation, redness

INHALATION: headaches or dizziness

SECTION 3-COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	C.A.S. Number	Concentration
Polymer A-1	Proprietary	23-25
Polymer A-2	Proprietary	9-10
Ethyl Alcohol	64-17-5	9-10
t-Butyl Acetate	540-88-5	36-39
Resin	Proprietary	13-16

SECTION 4-FIRST AID MEASURES

Eyes: Check for and remove any contact lens. Immediately flush eyes with plenty of water for at least 15 minutes lifting eyelids occasionally. Get medical attention.

Skin: In case of skin contact, wash thoroughly with water or soap and water if available. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation: Remove affected person to fresh air. Seek immediate medical attention if breathing difficulties occur. Also keep patient half sitting with upper body raised.

Ingestion: If accidentally swallowed, rinse mouth thoroughly with water and, afterwards, drink plenty of water. In case of discomfort, obtain medical attention. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5-FIREFIGHTING MEASURES

FLASH POINT:	LEL	UEL	FLAMABILITY CLASSIFICATION
<25C (77 F)	NA	NA	RED LABEL -- Flammable, Flash below 100 °F (38 °C)

EXSTINGUISHING MEDIA

Dry chemical, alcohol foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors. Do not release runoff from fire to drains or watercourses.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Closed containers may explode when exposed to extreme heat. This material may produce a floating fire hazard sensitive to static discharge.

SPECIAL FIRE FIGHTING PROCEDURES

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6-ACCIDENTAL RELEASE MEASURES

Dike area to prevent spreading. Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not flush to sewer! Dispose of as a chemical waste in accordance with current local, state and federal regulations.

SECTION 7- HANDLING AND STORAGE

DOT STORAGE CLASS: class 3

PROPER DOT SHIPPING NAME: Coating Solution

HANDLING: Provide good ventilation or extraction. Avoid prolonged or repeated breathing of vapor. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks, flames and other sources of ignition. Wash hands thoroughly after handling.

STORAGE: Avoid storage over 100° F, contamination with incompatible materials. Keep containers tightly closed in a cool, well ventilated place. Protect from moisture. Avoid all sources of ignition. Residual vapors might explode on ignition. Do not apply heat, cut, drill, and grind or weld on or near this container. Keep container closed when not in use.

SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using.

VENTILATION SYSTEM

Positive fresh air exhaust should be provided in the work area. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use.

SKIN PROTECTION

Avoid skin contact. Wear butyl-rubber gloves and impervious protective clothing.

EYE PROTECTION

Do not wear contact lenses. Chemical safety goggles or splash shields are recommended.

Ingredient	ACGIH TLV	OSHA PEL
Ethyl Alcohol	1000 ppm	1000 ppm
t-Butyl Acetate	200 ppm	200 ppm

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: 9 hPa @ 20° C

VAPOR DENSITY: Heavier than air

SPECIFIC GRAVITY: 1.02

BOILING POINT: >90°C

SOLUBILITY IN WATER: Insoluble

APPEARANCE: Clear to Amber slightly milky liquid

ODOR: Mild fruity

VOLATILE ORGANIC COMPOUNDS: <100 g/l

SECTION 10- STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

INCOMPATIBILITIES: oxidizers, alkalis, acids, aliphatic amines, nitrates, water

HAZARDOUS POLYMERIZATION: may occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Ingredient	Target Organs	IARC CATEGORY
Polymer A-1	IRR, LIV, KID	NO
Polymer A-2	IRR, LIV, KID	NO
Ethyl Alcohol	HEART, IRR, LIV, KID	NO
t-Butyl Acetate	IRR	NO
Resin	NONE	NO

ABBREVIATIONS:

IRR = Irritant

LIV = Liver

KID = Kidney

Toxicity to Animals**Oral LD 50**

Ethyl alcohol 2000 mg/kg rabbit

Dermal LD 50

Ethyl Alcohol 20,000 mg/kg rabbit

SECTION 12- ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a 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.

SECTION 14 – TRANSPORT INFORMATION**DOT and IATA Hazard Classification:** Class 3 Flammable Liquid**Proper DOT Shipping Name:** Coatings Solution**Identification Number:** DOT – UN 1139 IATA – UN 1139**SECTION 15-REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS number	Chemical Compound
64-17-5	Ethyl Alcohol
540-88-5	t-Butyl Acetate

CALIFORNIA PROPOSITION 65

This product does not contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

SECTION 16 – OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

IMPORTANT LIABILITY DISCLAIMER

The information contained in this Material Safety Data Sheet (MSDS) is believed to be correct as it was obtained from sources we believe are reliable. However, no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications, hazards connected with the use of the material, or the results to be obtained from the use thereof. User assumes all risks and liability of any use, processing or handling of any material, variations in methods, conditions and equipment used to store, handle or process the material and hazards connected with the use of the material are solely the responsibility of the user and remain at his sole discretion. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user, and the user has the responsibility to provide a safe work place, to examine all aspects of its operation and to determine if or where precautions, in addition to those described herein, are required.