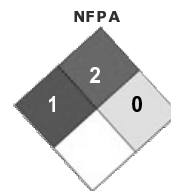


DOT Pictograms

**Not
Regulated**

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **TSF-6592**
 Product Code: TSF-6592
 MSDS Manufacturer Number: TSF-6592
 Manufacturer Name: Kester
 Address: 800 W. Thomdale Avenue
 Itasca, IL 60143
 General Phone Number: (630)-616-4000
 Customer Service Phone Number: (800)-2KESTER (253-7837)
 CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300 Outside of the U.S. and Canada: (703) 527-3887
 Website: msds@kester.com
 MSDS Creation Date: July 23, 2008
 MSDS Revision Date: September 30, 2012
 MSDS Format: According to ANSI Z400.1-2004



HMIS	
Health Hazard	1
Fire Hazard	2
Reactivity	0
Personal Protection	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Rosin	Proprietary	1 - 5 by weight	
Succinic acid	110-15-6	1 - 5 by weight	
Non hazardous	Not Available	1 - 5 by weight	
Solvent	Proprietary	10 - 30 by weight	
Rosin	144413-22-9	30 - 60 by weight	
Glycol ether	Proprietary	10 - 30 by weight	

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: Irritant. Exposures to soldering fumes and vapors may be irritating to eyes, respiratory system, and skin.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Smoke during soldering can cause eye irritation.

Skin: May cause skin irritation.

Inhalation: Inhalation of vapors, fumes or mists of the product may be irritating to the respiratory system.

Ingestion: Ingestion of the product may produce gastrointestinal irritation and disturbances.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: >94°C (>201°F)

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Hazardous Combustion Byproducts: Oxides of carbon, oxides of nitrogen, aliphatic aldehydes, and other organic substances may be formed during combustion..

NFPA Ratings:

NFPA Health: 1

NFPA Flammability: 2

NFPA Reactivity: 0

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Avoid contact with eyes and skin. Use proper personal protective equipment as listed in section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods for containment: Contain spills with an inert absorbent material such as soil, sand or oil dry. Prevent from spreading by covering, diking or other means.

Methods for cleanup: Pick or scoop up material and put into a suitable container for proper disposal.

SECTION 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions.

Storage: Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Recommended storage temperature is at or near 5°C or 42°F in a dry location.

Hygiene Practices: Wash thoroughly after handling. Avoid inhaling vapors, mists, or fumes.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

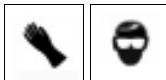
Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Tightly fitting safety goggles.

Skin Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data. Nitrile rubber or natural rubber gloves are recommended.

Respiratory Protection: The need for respiratory protection will vary according to the airborne concentration of the decomposition products released and accumulated in the area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear the appropriate respiratory protection according to the conditions and exposure levels in the area.

PPE Pictograms:



EXPOSURE GUIDELINES

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Color: Yellow
Boiling Point: Not determined.
Melting Point: Not determined.
Density: Not determined.
Solubility: Insoluble
Flash Point: >94°C (>201°F)
Explosive Properties: Product does not present an explosion hazard.

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Hazardous Polymerization: Not reported.
Conditions to Avoid: No thermal decomposition if used according to specifications.
Incompatible Materials: Oxidizing agents. Strong acids and alkalis.
Special Decomposition Products: When heated to soldering temperatures, the solvents are evaporated and rosin may be thermally degraded to liberate aliphatic aldehydes and acids.

SECTION 11 - TOXICOLOGICAL INFORMATION

Succinic acid :

RTECS Number: WM4900000
Eye: Eye - Rabbit Standard Draize test.: 750 ug [severe]
Ingestion: Oral - Rat LD50 : 2260 mg/kg [Details of toxic effects not reported other than lethal dose value]

Glycol ether :

RTECS Number: UA8200000
Eye: Eye - Rabbit Standard Draize test.: 100 mg
Skin: Administration onto the skin - Rabbit LD50 : 5860 uL/kg [Behavioral - Somnolence (general depressed activity) Gastrointestinal - Hypermotility, diarrhea Lungs, Thorax, or Respiration - Other changes]
Ingestion: Oral - Rat LD50 : 1620 uL/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Skin and Appendages - Hair]


SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Do not allow product to reach ground water, water course or sewage system.
Effect of Material On Aquatic Life: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated.
DOT UN Number: Not Regulated.
DOT Pictograms: 
IATA Shipping Name: Not Regulated.
IATA UN Number: Not Regulated.
IMDG UN Number : Not Regulated.
IMDG Shipping Name : Not Regulated.

ADR Shipping Name : Not Regulated.
RID UN Number : Not Regulated.
RID Shipping Name : Not Regulated.
ICAO UN Number : Not Regulated.
ICAO Shipping Name: Not Regulated.

SECTION 15 - REGULATORY INFORMATION

SARA: This product does not contain any chemicals which are listed in the SARA Title III Extremely Hazardous Substances (EHS)

Canada WHMIS: Controlled - Class: D2B Toxic

Rosin :

TSCA Inventory Status: Listed

Canada DSL: Listed

Succinic acid :

TSCA Inventory Status: Listed

Canada DSL: Listed

Canada IDL: Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.1476(135)

Solvent :

TSCA Inventory Status: Listed

Canada DSL: Listed

Glycol ether :

TSCA Inventory Status: Listed

Canada DSL: Listed

WHMIS Pictograms:



SECTION 16 - ADDITIONAL INFORMATION

HMIS Health Hazard: 1

HMIS Fire Hazard: 2

HMIS Reactivity: 0

MSDS Creation Date: July 23, 2008

MSDS Revision Date: September 30, 2012

Disclaimer: The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.

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