

View (M)SDS <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> <u>11</u> <u>12</u> <u>13</u> <u>14</u> <u>15</u> <u>16</u> <u>2</u> <u>3</u> Section:

Personal Protective Equipment



Splash

Goggles









WHMIS Pictograms





DOT

Pictograms

C he mica I Safety ProtectiveFlammable D2B Toxic Glasses Gloves

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1589 Product Code: 1589 MSDS Manufacturer 1589

Number:

Product Use/Restriction: Soldering flux Manufacturer Name: Kester

Address:

800 W. Thorndale Avenue Itasca, IL 60143

General Phone Number:

(630)-616-4000

Customer Service Phone (800)-2KESTER (253-7837)

Number: CHEMTREC:

For emergencies in the US, call CHEMTREC: 800-424-9300 Outside of the U.S. and Canada: (703) 527-3887

We bsite: msds@kester.com August 15, 2008 MSDS Creation Date: MSDS Revision Date: June 19, 2011

MSDS Format:

NFPA

HMIS	
Health Hazard	1
Fire Hazard	3
Reactivity	o
Personal Protection	x

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Proprietary ingredient(s)	P ro p rie ta ry	1 - 5 by weight	
Gum rosin	8050-09-7	10 - 30 by weight	
Isopropyl alcohol	67-63-0	60 - 100 by weight	
Non Hazardous	N/A	5 - 10 by weight	

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: DANGER! Flammable. Potential Sensitizer Flux fumes during soldering

may cause irritation and damage of mucous membranes and

respiratory system.

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

Potential Health Effects:

Eye contact with product or vapors may result in irritation, redness, and blurred vision. . Smoke during soldering can cause eye irritation. Eye:

Skin: May cause irritation.

May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

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

the respiratory system. May cause respiratory sensitization with asthma-like symptoms in

susceptible individuals.

Ingestion: May be harmful if swallowed. May cause vomiting.

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.

Repeated or prolonged inhalation may cause toxic effects.

Signs/Symptoms: Overexposure may cause headaches and dizziness.

Tamet Omans: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing

Conditions:

None generally recognized.

Eye Contact: Immediately flush eyes with plenty of water for 15 to 20 minutes. Get

medical attention, if irritation or symptoms of overexposure persists.

Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists. Skin Contact:

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: 18 °C (64 °F)

Auto Ignition Temperature: 399 °C (750 °F)

Lower Flammable/Explosive

In halation:

2.0 % by volume

Upper Flammable/Explosive

12.0 % by volume

Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog Extinguishing Media:

or spray when fighting fires involving this material.

Unsuitable Media: Do not use a solid water stream as it may scatter and spread fire.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA),

MSHA/NIOSH (approved or equivalent) and full protective gear

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

NFPA Ratings:

NFPA Health: 1

NFPA Flammability: 3

NFPA Reactivity:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from

entering the spill area. Avoid breathing vapor, aerosol or mist. Avoid

contact with skin, eyes and clothing.

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.

Remove all sources of ignition. Absorb spill with inert material (e.g., dry Methods for cleanup:

sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable

container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor and fumes. Use

only in accordance with directions. To reduce potential for static discharge, bond and ground containers when transferring material.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances.

Keep container tightly closed when not in use.

Special Handling Procedures:

DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel

wool or waste in a sealed, water-filled, metal container.

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.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data

for permeability data.

Nitrile rubber or natural rubber gloves are recommended.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge

or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate

protection.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Other Protective:









EXPOSURE GUI DELI NES

Gum rosin:

 ${\tt Guideline\ ACGIH:}$ Sensitizer: Sen

Isopropylalcohol:

TLV-STEL: 400 ppm TLV-STEL: 400 ppm Guideline ACGIH: Guideline OSHA: PEL-TWA: 400 ppm

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Liquid. Color: Amber. Odor: Alcohol-like 82 °C (180 °F) Boiling Point: Meltina Point: Not determined.

Density: 0.850 g/cm3 @ 20°C (68°F) 33 mm Hg @ 20℃ (68°F) Vapor Pressure:

Flash Point: 18 °C (64 °F) Auto Ignition Temperature: 399 °C (750 °F)

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Hazardous Polymerization: Not reported.

Conditions to Avoid: Keep away from heat, ignition sources and incompatible materials.

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

Gum rosin:

RTECS Number: VL0480000

Inhalation - Rat LC50: 110 mg/m3 [Behavioral - Somnolence (general depressed activity) Cardiac - Pulse rate Lungs, Thorax, or Respiration -Inhalation:

Respiratory depression] (RTECS)

Ingestion: Oral - Mouse LD50: 2.2 mg/kg [Behavioral - Somnolence (general

depressed activity) Cardiac - Pulse rate Lungs, Thorax, or Respiration - Respiratory depression]

Oral - Rat LD50: 3.0 mg/kg [Brain and Coverings - Other degenerative

changes Liver - Other changes Biochemical - Metabolism (Intermediary) - Other] (RTECS)

Isopropylalcohol:

RTECS Number NT8050000

Eye - Rabbit Standard Draize test.: 100 mg Eye - Rabbit Standard Draize test.: 10 mg Eye:

Eye - Rabbit Standard Draize test.: 100 mg/24H (RTECS)

Skin: Administration onto the skin - Rabbit Standard Draize test.: 500 mg

Administration onto the skin - Rabbit LD50: 12800 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Inhalation: Inhalation - Rat LC50: 16000 ppm/8H [Details of toxic effects not Inhalation - Rat LC50: 72600 mg/m3 [Behavioral General anesthetic

Lungs, Thorax, or Respiration - Other changes] (RTECS)

Ingestion: Oral - Rat LD50: 5045 mg/kg [Behavioral - Altered sleep time

(including change in righting reflex) Behavioral - Somnolence (general depressed activity)]

Oral - Mouse LD50: 3600 mg/kg [Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Somnolence (general depressed activity)]

Oral - Mouse LD50: 3600 mg/kg [Behavioral - General anesthetic] Oral - Rat LD50: 5000 mg/kg [Behavioral - General anesthetic]

(RTECS)

Non Hazardous :

ZC0110000 RTECS Number:

Oral - Rat LD50 : >90 mL/kg [Details of toxic effects not reported other than lethal dose value] (RTECS) $\,$ Inaestion:

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, Waste Disposal:

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: Isopropanol, mixture

DOT UN Number: UN1219

DOT Hazard Class: DOT Packing Group: Π

IATA Shipping Name: Isopropanol, mixture

UN1219 IATA UN Number:

IATA Hazard Class:

IATA Packing Group:

IMDG UN NUmber: UN1219

IMDG Shipping Name: Isopropanol, mixture

IMDG Hazard Class : IMDG Packing Group :

RID UN Number: UN1219

RID Shipping Name: Isopropanol, mixture

RID Hazard Class: 3 RID Packing Group:

SECTION 15 - REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the Canada Reg. Status:

information required by the Controlled Products Regulations.

Controlled - Class: B2 Flammable Liquid Controlled - Class: D2B Toxic Canada W HMIS:

Gum rosin:

TSCA Inventory Status: Listed Canada DSL: Listed

Isopropylalcohol:

TSCA Inventory Status: Listed Canada DSL: Listed

Listed

Canada DSL:

GHS Pictograms:





SECTION 16 - ADDITIONAL INFORMATION

General Use: Soldering flux

HMIS Health Hazard: HMIS Fire Hazard: HMIS Reactivity:

HMIS Personal Protection:

Disclaimer:

MSDS Creation Date: August 15, 2008 MSDS Revision Date:

June 19, 2011

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