Material Safety Data Sheet

Henkel Technologies

Revision Date: 08/24/2007 **Issue date:** 08/24/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 5031/300ML
Product type: Silicone
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 40086 / IDH No. 693986
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Silicone Resin Proprietary	60-100	None	None	None
Silica, amorphous, treated 68909-20-6	1-5	10 mg/m^3 (Inhal)	20mppcf	6 mg/m^3
Silane Derivative Proprietary	1-5	None	None	None
Substituted silane	1-5	None	None	None
Photoinitiator Proprietary	1-5	None	None	None

Exposure to moisture during cure will release 1-5% acetic acid.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Viscous liquid
Color: Opaque
Odor: Acetic Acid

HEALTH: 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION.
INHALATION OF VAPORS FROM UNCURED SEALANT MAY CAUSE RESPIRATORY TRACT IRRITATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: Inhalation of vapors from uncured sealant may cause respiratory tract irritation. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limt. Acetic acid produced during cure may irrritate eyes, nose and throat.

Skin contact: Prolonged or repeated contact with uncured sealant may cause skin irritation. Repeated or prolonged skin contact may result in allergic sensitization.

Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion:	Not expected under normal conditions of use. Not expected to be harmful by ingestion.
Existing conditions aggravated by exposure:	None generally recognized.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If discomfort persists seek medical attention.
Skin contact:	Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms develop and persist.
Notes to physician:	None.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93ºC (200ºF)
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not applicable
Flammable/Explosive limits-upper %:	Not applicable
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon. Oxides of silicon. Formaldehyde. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	Scrape up as much material as possible. Place scrap material in a well ventilated area and allow to cure to rubber. Cured material can be disposed of as non-hazardous waste.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.
Storage:	Store in a dry area below 90° F
Incompatible products:	Keep away from strong oxidizing agents, strong Lewis or mineral acids. Avoid contact with water. Avoid exposure to light

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Use a NIOSH approved respirator if ventilation is inadequate.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous liquid
Color: Opaque
Odor: Acetic Acid
Vapor pressure: Less than 10 mm Hg at 21.1 ºC (70ºF)
pH: Not applicable
Boiling point/range: Not applicable
Melting point/range: Not applicable
Specific gravity: 1.05
Vapor density: Heavier than air
Evaporation rate: Not available
Solubility in water: Polymerizes in presence of water
Partition coefficient (n-octanol/water): Not available
VOC content: 5.69%; 59.7 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Formaldehyde. Acetic acid is liberated slowly upon contact with moisture.

Incompatability: Acids. Bases. Oxidizing agents. Heat, sunlight, or UV light.

Conditions to avoid: Product is sensitive to light and moisture.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silicone Resin Proprietary	No	No	No
Silica, amorphous, treated 68909-20-6	No	No	No
Silane Derivative Proprietary	No	No	No
Substituted silane	No	No	No
Photoinitiator Proprietary	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silicone Resin Proprietary	No Target Organs
Silica, amorphous, treated 68909-20-6	No Target Organs
Silane Derivative Proprietary	Allergen, Irritant
Substituted silane	Allergen, Irritant
Photoinitiator Proprietary	Irritant

12. ECOLOGICAL INFORMATION

Ecological information: No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, groundwater, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Cured rubber can be incinerated or landfilled following EPA and local regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None.
CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313:	None above reporting de minimus.
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class:	D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2,3,8,15

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