



Revision Number: 003.3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LOCTITE SI 5015 BL known as Loctite(R) Superflex(R) Blue R	IDH number:	270639
Product use:	Silicone rubber sealant	Item number:	30533
Company address:	Henkel Canada Corporation 2515 Meadowpine Boulevard Mississauga, Ontario L5N 6C3	Region:	Canada
		Contact information:	Telephone: 905.814.6511 MEDICAL EMERGENCY Phone: Poison Control Center 1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Paste	WHMIS hazard class:	D.2.B
Color:	Blue		
Odor:	Acetic acid		

WARNING: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation:	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 limit. Acetic acid produced during cure may irritate eyes, nose and throat.
Skin contact:	May cause skin irritation.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Not expected to be harmful by ingestion.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Dimethyl siloxane, hydroxyterminated	70131-67-8	60 - 100
Distillates (petroleum), hydrotreated middle	64742-46-7	5 - 10
Silicon dioxide	7631-86-9	5 - 10
Dimethyl polysiloxane	63148-62-9	1 - 5
Methylsilanetriyl triacetate	4253-34-3	1 - 5
Triacetoxyethylsilane	17689-77-9	1 - 5
Acetic acid	64-19-7	0.1 - 1
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	0.1 - 1
Silicic acid, ethyl ester	11099-06-2	0.1 - 1
calcium di(acetate)	62-54-4	0.1 - 1
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	0.1 - 1
Organocopper compound	13395-16-9	0.1 - 1
C.I. Pigment Blue 28	1345-16-0	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.
Skin contact:	Wipe off with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Notes to physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point:	> 93 °C (> 199.4 °F)
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	4 % (acetic acid) Upper/lower explosion limit
Flammable/Explosive limits - upper:	19.9 % (acetic acid) Upper/lower explosion limit
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Acrid smoke and fumes. Silica mist. Formaldehyde.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to static discharge:	Not available.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not allow product to enter sewer or waterways.
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Clean-up methods:

Maintain good ventilation for large spills. Scrape up as much material as possible. Spilled material will solidify. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Storage:

For safe storage, store at or below 90 °F (32.2 °C)
Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Dimethyl siloxane, hydroxyterminated	None	None	None	None
Distillates (petroleum), hydrotreated middle	5 mg/m ³ TWA Inhalable fraction.	5 mg/m ³ PEL Mist.	None	None
Silicon dioxide	6 mg/m ³ TWA	20 MPPCF TWA 0.8 mg/m ³ TWA	None	3 mg/m ³ TWA Respirable fraction.
Dimethyl polysiloxane	None	None	None	None
Methylsilanetriyl triacetate	None	None	None	None
Triacetoxylethylsilane	None	None	None	None
Acetic acid	15 ppm STEL 10 ppm TWA	10 ppm (25 mg/m ³) PEL	None	None
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Silicic acid, ethyl ester	None	None	None	None
calcium di(acetate)	None	None	None	None
Silane, dichlorodimethyl-, reaction products with silica	None	None	None	None
Organocopper compound	None	None	None	None
C.I. Pigment Blue 28	0.02 mg/m ³ TWA (as Co)	None	None	None

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection:

Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Skin protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Paste

Color:

Blue

Odor:

Acetic acid

Odor threshold:

Not available.

pH:

Not available.

Vapor pressure:

< 10 mm hg (68 °F (20°C))

Boiling point/range:

Not available.

Melting point/ range:

Not available.

Specific gravity:

1.04 at 20 °C (68°F)

Vapor density: Heavier than air.
Flash point: > 93 °C (> 199.4 °F)
Flammable/Explosive limits - lower: 4 % (acetic acid) Upper/lower explosion limit
Flammable/Explosive limits - upper: 19.9 % (acetic acid) Upper/lower explosion limit
Autoignition temperature: Not available.
Evaporation rate: Not available.
Solubility in water: Polymerises in presence of water.
Partition coefficient (n-octanol/water): Not available.
VOC content: 3.08 %; 32 g/l

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous reactions: Will not occur.
Hazardous decomposition products: Acetic acid is liberated slowly upon contact with moisture. Formaldehyde.
Incompatible materials: Oxidizing agents. Bases. Water. Acids.
Conditions to avoid: Prolonged heating at temperatures above 150 °C. Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Toxicologically synergistic products: Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Dimethyl siloxane, hydroxyterminated	No	No	No	No
Distillates (petroleum), hydrotreated middle	No	No	No	Group A4
Silicon dioxide	No	No	No	No
Dimethyl polysiloxane	No	No	No	No
Methylsilanetriyl triacetate	No	No	No	No
Triacetoxylethylsilane	No	No	No	No
Acetic acid	No	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No	No
Silicic acid, ethyl ester	No	No	No	No
calcium di(acetate)	No	No	No	No
Silane, dichlorodimethyl-, reaction products with silica	No	No	No	No
Organocopper compound	No	No	No	No
C.I. Pigment Blue 28	No	Group 2B	No	Group A3

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Dimethyl siloxane, hydroxyterminated	None	No Target Organs
Distillates (petroleum), hydrotreated middle	None	Irritant
Silicon dioxide	Oral LD50 (RAT) = > 22,500 mg/kg	Nuisance dust
Dimethyl polysiloxane	None	Irritant
Methylsilanetriyl triacetate	None	Irritant, Allergen
Triacetoxylethylsilane	None	No Target Organs
Acetic acid	Oral LD50 (RABBIT) = 1,200 mg/kg Oral LD50 (RAT) = 3.53 g/kg Oral LD50 (RAT) = 3.31 g/kg Dermal LD50 (RABBIT) = 1,060 mg/kg Inhalation LC50 (RAT, 4 h) = 11.4 mg/l	Allergen, Corrosive, Eyes, Gastrointestinal, Immune system, Irritant, Kidney
Gamma-glycidoxypopyl trimethoxysilane	None	Allergen, Irritant
Silicic acid, ethyl ester	None	No Target Organs
calcium di(acetate)	None	Allergen, Corrosive, Irritant, Kidney
Silane, dichlorodimethyl-, reaction products with silica	None	No Target Organs
Organocopper compound	None	Allergen, Blood, Central nervous system, Developmental, Gastrointestinal, Immune system, Irritant, Kidney, Liver, Mutagen, Sensory, Skin
C.I. Pigment Blue 28	None	No Target Organs

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. Cured rubber can be incinerated or landfilled following EPA and local regulations.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods - Ground

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

Water Transportation (IMO/IMDG)

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

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

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.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: Reviewed MSDS. Reissued with new date.

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

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