Induction Melting Repairs Limited

INSULFLEX®

Product: Pyrosealant™

MATERIAL SAFETY DATA SHEET

1. Chemical product and Company identification

Emergency Contact:	ADL Insulflex, Inc. (see page 4)
Revised:	June 2008
Chemical Family:	Silicone rubber
Formula:	Proprietary mixture
Description:	Heat resistant sealing and gasketing material

2. Composition / Information on ingredients

Product Composition CAS Reg. No.	Approx. % Wt.	LD50 (oral-rat)
A. HAZARDOUS		
Amorphous silica #7631-86-9	10.0 – 30.0	3.16 g/kg
Methyltriacetoxy silane #4253-34-3	1.0 – 5.0	2.06 g/kg
Ethyltriacetoxy silane #17689-77-9	1.0 – 5.0	1.46 g/kg
Octamethylcyclotetrasiloxane #556-67-2	0.1 – 1.0	1.54 g/kg

3. Hazards identification

Potential health effects:

Ingestion:	Low ingestion hazard
Skin contact:	May cause moderate irritation
Eye contact:	May cause irritation
Inhalation:	Irritates respiratory passages slightly
Medical conditions aggravated:	None known
Sub-chronic (target organ) effects:	None known
Chronic effects/carcinogenic:	None known
Principle routes of exposure:	None known
Other:	None known

4. First aid measures

Ingestion:	Small quantities ingested by inadvertently wiping the mouth should not harm. Contact physician if larger amounts are consumed.
Skin:	Remove contaminated clothing. Wash thoroughly with warm water and non-abrasive soap.
Inhalation:	Move person to fresh air and provide water. Seek medical attention if person feels ill or a reaction develops.
In case of eye contact:	Flush with copious quantities of lukewarm water. Do not attempt to physically remove solids or gums from the eyes. Seek medical attention immediately.

Note to physician: None known.

5. Fire fighting measures

Flash point:	N/A
Auto ignition temp.	Not determined
Flammable limits in air – upper %	Not determined
Sensitivity to mechanical impact:	No
Sensitivity to static discharge:	No
Extinguishing media:	Carbon dioxide; dry chemical; water fog; foam
Special fire fighting procedures:	Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.

6. Accidental release measures

Spill Procedure:	Restrict access to the area of the spill. Provide ventilation and protective clothing. Scrape up sealant and place in container for disposal.

7. Handling and storage

Precautions for handling & storage: Normal warehouse conditions (10° to 25°C).

8. Exposure controls / Personal protection

Engineering controls:	None known
Respiratory protection:	Wear an approved organic vapor type respirator.
Protective equipment:	Goggles, impermeable gloves, coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling.
Other protective equipment:	None required.
Ventilation:	In indoor applications, passive ventilation (opening of doors and windows) is recommended. Local exhaust as necessary.

9. Physical and chemical properties

Boiling point:	N/A
Vapor pressure:	N/A
Vapor density:	N/A
Freezing point:	N/A
Melting point:	N/A
Physical state:	Red paste
Odor:	Acetic acid
Specific gravity:	1.04
Acid/alkalinity	Unknown
pH:	N/A
Solubility in water:	None
VOC:	NT

10. Stability and reactivity

Stability:	Stable
Hazardous polymerization:	Will not occur.
Combustion products:	Carbon and metal oxides, silicone dioxide and traces of incompletely burned carbons. Formaldehyde.
Incompatible materials:	Oxidizing material or electrophiles can cause a reaction.
Materials/conditions to avoid:	None known

11. Toxicological information

Product Information:	
Acute Oral LD50:	Unknown
Acute Dermal LD50:	Unknown
Acute Inhalation LC50:	Unknown
Ames Test:	Unknown

12. Ecological information

Effects of over-exposure:	Acetic acid vapors may irritate eyes, nose and throat. Direct contact with eyes and skin will irritate.
Exposure limits:	Water, moisture or humid air can cause acetic acid vapors to be formed. Provide adequate ventilation to control exposures within guidelines of OSHA
PEL:	TWA 10ppm and ACGIH TLV: 10ppm, STEL 15ppm.
Sensitization:	None known
Carcinogenicity:	No ingredients listed by IARC, NTP or OSHA as carcinogens.
Reproductive toxicity:	Evidence of reproductive effects in laboratory animals when exposed to octamethylcyclotetrasiloxane by inhalation at concentrations of 500ppm or higher for 70 days prior to mating.
Teratogenicity:	None known
Mutagenicity:	None known
Synergistic products:	None known

13. Disposal considerations

Disposal method:	User should follow normal methods of disposal in accordance with any governmental regulations.
Spill Procedure:	Restrict access to the area of the spill. Provide ventilation and protective clothing. Scrape up sealant and place in container for disposal.

14. Transport information

DOT shipping name:	Non-regulated
DOT hazard class:	Not DOT regulated
DOT label:	N/A
UN/NA label:	N/A
Placards:	N/A
IATA:	N/A
IMO IMDG code:	N/A
European class:	
RID (OCTf):	N/A
ADR (ECE):	N/A
RAR (IATA):	N/A

15. Regulatory information

SARA Section III, Section 313	This product contains no toxic chemical that is subject to reporting under Section 313 (40CFR Part 372)
CPSC classification:	N/A
WHMIS hazard class:	D2A, D2B
TGD classification:	Non-regulated
Harmonized code:	3214.10
Hazard rating systems HMIS:	Flammability 1; Reactivity 0; Health 1.

16. Other

Users are advised to ensure that this information is brought to the attention of their employees handling the product. The information given herein is believed to be reliable. However, ADL Insulflex, Inc. makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. ADL Insulflex, Inc.'s obligations shall be only as set forth in ADL Insulflex, Inc.'s standard terms and conditions of sale for this product. In no case will ADL Insulflex, Inc. be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

Users of ADL Insulflex, Inc. products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures.

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