Induction Melting Repairs Limited

INSULFLEX®

Product: Silicaflex™ sleeve

MATERIAL SAFETY DATA SHEET

1. Chemical product and Company identification

Emergency contact:	ADL Insulflex, Inc. (address & emergency phone numbers - page 4)
Revised:	June 2008
Chemical family:	Amorphous silica
Formula:	Proprietary mixture
Description:	Amorphous silica fiber yarn; flexible braided sleeving.

2. Composition / Information on ingredients

No hazard rating is available for this product

Product composition CAS Reg. No.	Approx. % Wt.
Amorphous silica #7631-86-9	96%
Hydrocarbon coating	0.3% - 0.5% (% of actual coating as a % of the base silica material)

3. Hazards identification

Ingestion:	May cause temporary irritation of the digestive tract, but not an expected route of entry in industrial uses.
Skin contact:	Temporary irritation of skin may be produced.
Eye contact:	May cause mild eye irritation.
Inhalation:	Inhalation of airborne fibers may cause irritation to the mouth, nose and throat.
Medical conditions aggravated:	None known
Sub-chronic (target organ) effects:	None known
Chronic effects/carcinogenic:	There are no known chronic health effects associated with use of this product under normal working conditions. No component present in this material at concentrations equal to or greater than 0.1% is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Principle routes of exposure:	Skin contact, inhalation, ingestion and eye contact.
Other:	

4. First Aid measures

Ingestion:	Seek medical attention immediately.
Skin:	Wash thoroughly with soap and water.
Inhalation:	Remove person from source of exposure and seek medical attention immediately.
In case of eye contact:	Flush for 15 minutes with copious quantities of lukewarm water. Seek medical attention if irritation persists.
Note to physician:	None known.

5. Fire Fighting measures

Flash point:	N/A
Auto Ignition temp.	Not determined
Flammable limits in air – upper %	N/A
Sensitivity to mechanical impact:	No
Sensitivity to static discharge:	No
Extinguishing media:	All standard fire-fighting media
Special fire fighting procedures:	In a sustained fire, irritating and/or toxic gases may be generated by combustion. Wear full fire fighting protective equipment including self-contained breathing apparatus.

6. Accidental release measures

Dust or loose fibers can be vacuumed or swept with the aid of a dust suppressant. Dispose according to governmental regulations.

7. Handling and storage

Precautions for handling and storage:	Normal warehouse conditions. Particular care should be taken to minimize dust when working with “used” material. If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn.

8. Exposure controls / Personal protection

Engineering controls:	None known
Respiratory protection:	Wear an approved disposable dust respirator designed for nuisance-type dusts.
Protective clothing:	Wear rubber gloves when handling this product. Personnel that are more susceptible to irritation from fibers or dusts should wear full-body coveralls.
Eye and face protection:	Safety glasses with side shields or chemical splash goggles must be worn to prevent eye contact. A good safety practice is to have an eye wash station readily available near the work area.
Other protective measures:	Use good personal hygiene practices. The use of protective cream before handling the material may prove beneficial.
Ventilation:	Local exhaust and/or general mechanical suggested.

Exposure limits:

Amorphous silica	
PEL (OSHA)	80mg/m^3+% SiO_2 OR 20 mppcf
TLV (ACGIH)	10 mg/m^3 (inhalable); 3 mg/m^3 (respirable)
NIOSH	6 mg/m^3
IDLH	3000 mg/m^3
Hydrocarbon coating:	This product is not considered hazardous as defined by 29 CFR 1910.1200 (OSHA Hazcom Standard)

9. Physical and chemical properties

Boiling point:	4046°F
Vapor pressure:	Not determined
Vapor density:	Not determined
Freezing point:	N/A
Melting point:	>3000°F
Physical state:	Solid
Odor:	None
Specific gravity:	2.20
% volatile by volume	Not known
pH:	Not known
VOC:	Not known
Solubility in water:	Insoluble

10. Stability and reactivity

Stability:	Stable
Hazardous polymerization:	Will not occur.
Hazardous thermal decomposition/ combustion products:	Carbon dioxide; carbons monoxide.
Conditions to avoid:	Incompatible with basic phosphates, hydrofluoric acid, and some oxides and hydroxides.

11. Toxicological information

Material which has been subjected to elevated temperatures (>1800°F) may undergo partial conversion to cristobalite, a form of crystalline silica, which may cause respiratory illness. The amount of cristobalite present will depend on the temperature and the length of service. The OSHA PEL for cristobalite is 0.05 mg/m^3 (respirable).

12. Ecological information

No information is available; however, toxicity is expected to be low, based on the insolubility in water of the product.

13. Disposal Considerations

Disposal Method:	User should follow normal methods of disposal in accordance with any governmental regulations.

14. Transport information

DOT shipping name:	N/A
DOT Hazard Class:	None
DOT Label:	N/A
UN/NA Label:	None

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 313	None
CPSC Classification:	N/A
WHMIS Hazard Class:	Non-regulated
Harmonized code:	7019.39
Hazard rating systems	
HMIS:	Not known
NFPA:	Not known

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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