
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "LITH-X"
Chemical Name: N/A – This is a mixture/preparation.
CAS No.: N/A – This is a mixture/preparation.
Chemical Formula: N/A – This is a mixture/preparation.
EINECS No.: N/A – This is a mixture/preparation.

1.2. Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

1.3. Company identification

Manufacturer/Supplier: ANSUL INCORPORATED
Address: One Stanton Street, Marinette, WI 54143-2542
Prepared by: Safety and Health Department
Phone: 715-735-7411
Internet/Home Page: <http://www.ansul.com>
Date of Issue: September, 2003

1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

- 2.1. Ingredient Name: Graphite.
Chemical Formula: C.
CAS No.: 7782-42-5.
EINECS Number: 231-955-3.
Concentration, Wt %: 93%.
Hazard Identification: See Heading 3.
- Ingredient Name: Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth).
Chemical Formula: $Mg_xAl_y(SiO_4)_z$.
CAS No.: 8031-18-3.
EINECS Number: (a).
Concentration, Wt %: 4-6%.
Hazard Identification: See Heading 3.
- Ingredient Name: Magnesium Stearate.
Chemical Formula: $(C_{17}H_{35}CO_2)_2Mg$.
CAS No.: 557-04-0.
EINECS Number: 209-150-3.
Concentration, Wt %: 1-3%.
Hazard Identification: See Heading 3.

(a) EINECS does not include most naturally occurring raw materials. See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

3. HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification:	Irritant.	
R Phrases:	36/37	Irritating to eyes and respiratory system.
S Phrases:	22	Do not breathe dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

Components:

Graphite:

EU Classification:	Irritant.	
R Phrases:	36/37	Irritating to eyes and respiratory system.
S Phrases:	22	Do not breathe dust.
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

Limit Values for Exposure:

Graphite:	OSHA PEL, TWA	15 mppcf
	ACGIH TLV-TWA	2 mg/m ³ .
Nuisance dust limit:	OSHA TWA:	15 mg/m ³ .
	ACGIH TLV-TWA	10 mg/m ³ .

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact:	Mildly irritating for short period of time.
Skin Contact:	May be mildly irritating.
Inhalation:	Usual route of entry. Causes irritation of the upper respiratory tract. Possibly allergenic. Transient cough, shortness of breath. Possibly bronchitis.
Ingestion:	Not an expected route of entry with normal use.

Chronic Overexposure: Causes pulmonary fibrosis; emphysema and cor pulmonale have resulted from prolonged inhalation of graphite dust.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory problems, chronic obstructive pulmonary disease (COPD).

FOR ENVIRONMENT:

No data available.

4. FIRST AID MEASURES

Eye Contact:	Wash with water for a minimum of 15 minutes. If irritation persists seek medical attention.
Skin Contact:	Wash affected area with soap and water. If irritation persists seek medical attention.
Inhalation:	Remove from exposure. If irritation persists seek medical attention.
Ingestion:	Dilute by drinking large quantities of water.

5. FIRE-FIGHTING MEASURES

This preparation is an extinguishing media.

There are NO extinguishing media which must not be used for safety reasons.

NO special protective equipment is needed for fire-fighters.

6. ACCIDENTAL RELEASE MEASURES

For personal protection: Prevent skin and eye contact, see Heading 8.

Clean up: Sweep up and reuse or place in a closed container for disposal, see Heading 13.

NO harm to the environment is expected from an accidental release of this preparation.

7. HANDLING AND STORAGE

7.1. Handling

Care should be taken in handling all chemical substances and preparations.
See incompatibility information in Heading 10.

7.2. Storage

No special conditions are needed for safe storage.
See incompatibility information in Heading 10.
Store in original container. Keep tightly closed until used.
There is minimal danger to the environment from a storage release.

7.3. Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Limit Values for Exposure:

Graphite: OSHA PEL, TWA 15 mppcf
ACGIH TLV-TWA 2 mg/m³.

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

Mechanical ventilation is recommended.

Dust mask where dustiness is prevalent, or TLV is exceeded. Use mechanical filter respirator if exposure is prolonged.

8.2.1.2. Hand protection

None normally needed. Use impervious gloves if irritation occurs.

8.2.1.3. Eye protection

Chemical goggles are recommended as mechanical barrier for prolonged exposure.

8.2.1.4. Skin protection

No special equipment is needed.

8.2.2 Environmental exposure controls

No special controls are needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Black Powder.
Odor: None.

9.2. Important health, safety, and environmental information

pH: Not applicable.
Boiling point/boiling range: Not applicable.
Flash point: None.
Flammability (solid/gas): Not flammable.
Explosive properties: Not explosive.
Oxidizing properties: Not an oxidizer.
Vapor Pressure: Not applicable.
Relative Density: Not applicable.
Solubility:
– Water solubility: Not soluble.
– Fat solubility: Not soluble.
Partition coefficient, n-octanol/water: Not determined.
Viscosity: Not applicable.
Vapor density (Air = 1): Not applicable.
Evaporation rate: Not applicable.

9.3. Other information

Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

There are no known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid

Chlorine trifluoride, fluorine, or potassium oxide.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will not occur.

Combustion or decomposition products include carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicological effects. Product is treated as a nuisance dust.
Graphite may cause irritation on skin, eyes, and mucous membranes.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Not determined.

12.2. Mobility

Not determined.

12.3. Persistence and degradability

Not determined.

12.4. Bioaccumulative potential

Not determined.

12.5. Other adverse effects

Ozone depletion potential: None.

Photochemical ozone creation potential: None

Global warming potential: None

13. DISPOSAL CONSIDERATIONS

NO harm to the environment is expected from this preparation.

Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: NOT a hazardous substance.

For additional transport information, contact Ansul Incorporated.

NO harm to the environment is expected from this preparation.

15. REGULATORY INFORMATION

Product:

EU Classification:

R Phrases: 36/37 Irritant.
Irritating to eyes and respiratory system.

S Phrases: 22 Do not breathe dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

Exposure Limit Values:

Graphite: OSHA PEL, TWA 15 mppcf

ACGIH TLV-TWA 2 mg/m³.Nuisance dust limit: OSHA TWA: 15 mg/m³.ACGIH TLV-TWA 10 mg/m³.

EINECS Status:

All components are included in EINECS inventories or are exempt from listing.

EPA TSCA Status

All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Restrictions on Marketing and Use: None are known.

Refer to any other national measures that may be relevant.

16. Other Information**(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:This product is rated **Not Hazardous.**

Format is from directive 2001/58/EC.

EINECS data is from <http://exb.jrc.it/existing-chemicals/>

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, February, 2002.

17. Disclaimer

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available

MSDS available at <http://www.ansul.com>

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