#### Item 650-52



SDS # Z0570

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| SAFETY DATA SHEET   | Version: 3              |  |  |
|                     | Date: 02/07/2014        |  |  |
| Manniglas® 1900 and | Supersedes : 10/14/2011 |  |  |
| Manniglas® 2000     | LYDALL                  |  |  |

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product identifier: Manniglas® 1900 and Manniglas® 2000

Insulation

1.2 Relevant identified uses of the substance or mixture and uses advised

against:

1.3 Details of the supplier of the safety

data sheet

Name: Lydall Green Island Operation Address:

68 George Street

Green Island, NY USA 12183

Telephone number: 1-800-441-2466 or 1-518-273-6320

Fax number: 1-518-273-6361 E-mail: info@lydall.com

1.4 Emergency Telephone Number: 1-518-273-6320

#### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the Substance or Mixture

**MOST IMPORTANT HAZARD:** The product does not present any hazard for final use. However, during

manufacturing or handling, respirable micro-fibers may be released and

result in the classification of the product as hazardous.

Adverse human health effects: Product dust may be irritating to eyes, skin and respiratory system. Prolonged

inhalation of respirable glass wool fibers is suspected to cause cancer.

**Environmental effects:** Presents no particular risk to the environment, provided the recommendations

concerning disposal (see section 13) and any applicable national or local

regulations are complied with.

Physical and chemical hazards

- Fire or explosion:

May form combustible dust concentrations in air during processing.

Classification of the product: According to European regulations (67/548/EEC), this product is classified as

Manufactured Article

OSHA/CLP/GHS Classification: Combustible dust

**EU Classification (67/548/EEC):** Manufactured Article

(Dust generated from processing –Not a dangerous preparation)

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#### 2.2 Label Elements

**-Hazard statements:** May form combustible dust concentrations in air.

-Precautionary statements: None

**2.3 Other Hazards:** Product dust may be irritating to eyes, skin and respiratory system.

Refer to Section 16 for Full Text of EU Classes and R Phrases

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

| Substance name             | Contents | CAS No.     | <b>EINECS No.</b> | Classification              |
|----------------------------|----------|-------------|-------------------|-----------------------------|
| Chopped, continuous strand | 90-95%   | 65997-17-3  | 266-046-0         | Not classified as dangerous |
| fiberglass (> 5 microns in |          |             |                   |                             |
| diameter)                  |          |             |                   |                             |
| Polymers                   | 5-10%    | Proprietary | Proprietary       | Not classified as dangerous |

See Section 16 for full text of GHS and EU Classifications.

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of First Aid Measures

**Eye contact:** Do not rub your eyes. Dust particles may cause abrasive eye injury. Flush eyes with

water, holding the eyelids apart for several minutes. Get medical attention if irritation

persists.

**Skin contact:** Do not rub or scratch. Rinse exposed skin with cold water then wash skin with soap

and water. Do not use hot water as that opens skin pores and may increase fiber penetration and irritation. Remove contaminated clothing and launder before re-use.

Get medical attention if irritation persists.

**Inhalation:** Remove victim to fresh air. Drink water to clear throat and blow nose to remove dust.

Get medical attention if irritation persists.

**Ingestion:** If small quantities are swallowed, rinse out mouth with water. Drink plenty of water to

help reduce irritation. If large amounts are swallowed or if irritation or discomfort

occurs, get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed:

May cause eye irritation. May cause mild skin and respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

No immediate treatment is normally required.

See Section 11 for more detailed information on health effects.

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#### **SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing Media:** Use water, water fog, carbon dioxide, foam or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture:

This product is not classified as flammable or combustible. Dust generated in cutting or other processing of this material may present a potential fire and explosion hazard if suspended in air at high concentrations. Settled dust presents a fire hazard. Re-suspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust.

**5.3 Advice for Fire-Fighters:** Firefighters should wear full emergency equipment and NIOSH approved positive

pressure self-contained breathing apparatus for all fires involving chemical

products.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate protective clothing and equipment (see section 8). Avoid contact with skin, eyes or clothing. Do not breathe dust.

6.2 Environmental Precautions:

Avoid release to the environment.

6.3 Methods and Material for Containment and Cleaning Up:

Pick up material and place into a container for disposal. If dust is present, wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner. If a vacuum is used, explosion proof equipment is required. Nonsparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.).

6.4 Reference to Other Sections:

Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

#### **SECTION 7: HANDLING and STORAGE**

# 7.1 Precautions for Safe Handling

Avoid contact with eyes, skin and clothing. Avoid creating and breathing dusts. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Do not eat, drink or smoke when using this material. Launder contaminated clothing before re-use. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequat precautions, such as electrical grounding and bonding, or inert atmospheres.

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|   | Empty containers retain product residues. Follow all SDS precautions in handling empty containers |
|---|---|
| 7.2 Conditions for Safe<br>Storage, Including any<br>Incompatibilities: | Store in a dry, well-ventilated area.   |
| 7.3 Specific end use(s):  | Filter media for the manufacture of air filters.  |

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control Parameters:

| 5 mg/m3 (respirable) 15 mg/m3 (total dust) TWA<br>OSHA PEL, 1 f/cc TWA OSHA HSPP*<br>5 mg/m3 inhalable or 1 f/cc TWA ACGIH TLV<br>5 mg/m3 or 2 fibre/mL TWA UK OEL<br>1 fibre.cm-3 VME France<br>0.25 respirable fibers/mL Germany |
|--|
| 5 mg/m3 (Respirable) 15 mg/m3 (total dust) TWA   |
| OSHA PEL   |
|  |

<sup>\*</sup> HSPP = OSHA voluntary Health and Safety Partnership Program

Note: If not listed above, refer to local regulations for specific country exposure limits

#### **8.2 Exposure Controls:**

-Engineering Measures:

Use with adequate local exhaust ventilation to minimize exposures. Provide local exhaust ventilation where product is cut or processed in a manner that generates dust. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

- Respiratory Protection:

If the occupational exposure limits are exceeded or irritation is experienced, wear an approved particulate respirator. Selection of respiratory protection depends on the contaminant type, form and concentration. Select and use in accordance with all applicable regulations (in the US follow OSHA 1910.134) and good Industrial Hygiene practice.

- Hand Protection:

Wear protective gloves to minimize skin contact. Barrier creams may be useful in reducing irritation.

- Eye/face Protection:

Wear safety glasses with side shields or dust proof goggles.

- Other Protective Clothing

or Equipment:

Clothing with long sleeves and pants should be worn to avoid skin contact. Washing facilities should be available in the work area.

#### **SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

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#### 9.1 Information on basic Physical and Chemical Properties

Appearance: White solid. Odor: Odorless. Odor Threshold: Not applicable Not applicable :Hq Melting/Freezing Point: >1200°F (>650°C) Not applicable **Boiling Point:** Flash Point:: Not applicable Not applicable **Evaporation Rate:** 

(n-butylacetate =1)

% Volatile by Volume: 0%

Lower Flammability Limit: Not applicable
Upper Flammability Limit: Not applicable
Vapor Pressure: Not applicable
Vapor Density(Air=1): Not applicable
Solubility: Insoluble
Autoignition Not applicable

Temperature:

**Decomposition** Not determined

Temperature:

Viscosity: Not applicable

**Explosive Properties:** High concentrations of dust in the presence of an ignition source could result in

a dust explosion.

Oxidizing Properties: Not applicable

Specific Gravity ( $H_2O=1$ ): 0.20

Molecular Formula: Not determined Molecular Weight: Not determined

9.2 Other Information: None.

#### **SECTION 10: STABILITY and REACTIVITY**

**10.1 Reactivity:** This material is not reactive under normal conditions.

10.2 Chemical Stability: Stable

10.3 Possibility of

Hazardous Reactions: Will not occur.

**10.4 Conditions to Avoid:** Avoid dust formation.

**10.5 Incompatible Materials:** Avoid strong acids.

10.6 Hazardous

**Decomposition Products:** Combustion of polymer may generate oxides of carbon and hydrocarbons.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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#### 11.1 Information on Toxicological Effects:

**Potential Health Effects:** 

**Eye Contact:** Dust may cause mechanical irritation and possible injury.

**Skin contact:** Dust may cause mechanical irritation.

**Inhalation:** Dust may cause nose, throat and upper respiratory tract irritation. Symptoms include coughing,

sneezing and scratchy throat.

**Ingestion:** May cause irritation of the mouth and intestinal tract.

**Acute toxicity:** No specific data is available **Skin corrosion/irritation:** Not a skin corrosive.

Eye damage/ irritation: Dust may cause mechanical irritation and possible injury.

Respiratory Irritation: Dust may be irritating to the respiratory system.

**Respiratory Sensitization:** Not a respiratory sensitizer.

Skin Sensitization: Not a skin sensitizer.

Germ Cell Mutagenicity: Not classified a germ cell mutagen.

Carcinogenicity: As manufactured, these products do not contain Respirable fibers. Severe mechanical processing may generate a very small amount of Respirable fibers that can reach the deep lung. Repeated or prolonged exposure to Respirable glass fibers may cause fibrosis, lung cancer and mesothelioma. Epidemiological studies have not shown any increase in lung cancer or respiratory disease among workers in fiber glass production facilities. Continuous filament fiberglass is not classified as a carcinogen by OSHA, IARC, NTP, ACGIH or the EU Dangerous Substances Directive. None of the components are classified as a carcinogen by IARC, NTP, ACGIH, OSHA or the EU Dangerous Substances Directive.

**Reproductive Toxicity:** No effects on reproduction are expected.

**Specific Target Organ Toxicity**:

Single Exposure: No data available. Repeat Exposure: No data available.

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity:

No data available.

#### 12.2 Persistence and degradability:

No data available.

#### 12.3 Bioaccumulative Potential:

No data available.

## 12.4 Mobility in Soil:

No data available.

#### 12.5 Results of PVT and vPvB assessment:

Not required.

#### 12.6 Other Adverse Effects:

None.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste Treatment Methods:

Dispose in accordance with local, state and national regulations.

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## **SECTION 14: TRANSPORTATION INFORMATION**

|                 | 14.1 UN<br>Number | 14.2 UN Proper Shipping Name | 14.3<br>Hazard<br>Class(s) | 14.4<br>Packing<br>Group | 14.5<br>Environmental<br>Hazards |
|-----------------|-------------------|------------------------------|----------------------------|--------------------------|----------------------------------|
| US DOT          | N/A               | Not classified for transport | N/A                        | N/A                      | N/A                              |
| Canadian<br>TDG | N/A               | Not classified for transport | N/A                        | N/A                      | N/A                              |
| EU<br>ADR/RID   | N/A               | Not classified for transport | N/A                        | N/A                      | N/A                              |
| IMDG            | N/A               | Not classified for transport | N/A                        | N/A                      | N/A                              |
| IATA/ICAO       | N/A               | Not classified for transport | N/A                        | N/A                      | N/A                              |

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

## **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### **U.S. REGULATIONS:**

**CERCLA:** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

#### **SARA TITLE III:**

Hazard Category For Section 311/312: This product is a manufactured article and not subject to reporting.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to Annual Release Reporting Requirements, Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

#### **U.S. STATE REGULATIONS**

California Proposition 65: This product is not known to contain chemicals regulated under California Proposition 65.

#### INTERNATIONAL REGULATIONS:

**EU Labeling:** Finished product is an article and no labeling is required.

**REACH:** This product is an article and not subject to registration.

**RoHS** (Restriction on the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations): This product is RoHS compliant.

**Canadian WHMIS**: If dust is generated in processing this dust would be classified as Class D-2-B (eye, skin and respiratory irritant)

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#### INTERNATIONAL INVENTORIES

US Toxic Substances Control Act Inventory (TSCA): This product is an article and not subject to TSCA.

EU Chemical Inventory (EINECS)/REACH: This product is considered an article under EINECS and REACH.

**Australian Inventory of Chemical Substances:** This product is an article and not subject to chemical notification requirements.

**China Inventory of Existing Chemicals and Chemical Substances:** This product is an article and not subject to chemical notification requirements.

**Japanese Existing and New Chemical Substances:** This product is an article and not subject to chemical notification requirements.

Korean Existing Chemicals List: This product is an article and not subject to chemical notification requirements.

**Philippine Inventory of Chemicals and Chemical Substances:** This product is an article and not subject to chemical notification requirements.

Canadian CEPA New Chemical Notification: This product is an article and not subject to new chemical notification.

New Zealand: This product is an article and not subject to new chemical notification.

#### **SECTION 16: OTHER INFORMATION**

SDS Date of preparation/revision: February 07, 2014 – Format updated to GHS SDS: Changes to all sections.

#### **Revision History:**

October 14, 2011 - Comprehensive review and update.

October 28, 2008 - New MSDS

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)

None

CLP/GHS Classification and H Phrases for Reference (See Section 3)

None

#### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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