

MSDS MATERIAL SAFETY DATA SHEET (Conforms to CFR 1910.1200)

1 IDENTIFICATION OF SUBSTANCE

PRODUCT NAME:

MAGNESOL®

GRADES:

600R

SUPPLIER:

The Dallas Group of America, Inc.

374 Route 22 P.O. Box 489

Whitehouse, NJ 08888 Tel:

908-534-7800 FAX: 908-534-0084

Information department: Product Safety Department

2 HAZARDS IDENTIFICATION

MAGNESOL® 600R has not been evaluated as a single product. The information in this section pertains mainly to Component B as Magnesium Silicate is not explosive, flammable, or combustible and is only a mild irritant to eyes, skin, and respiratory passages.

Inhalation:

Causes irritation to mucous membranes and respiratory passages.

Ingestion:

Causes irritation to the mouth and digestive tract.

Skin Contact:

Causes irritation.

Eye Contact:

Corrosive, causes burns.

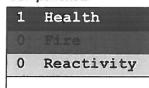
HMIS ratings (scale 0-4)

Magnesium silicate



Health = 0Fire = 0Reactivity = 0

Component B



Health = 1 Fire = 0Reactivity = 0

3 COMPOSITION/DATA ON INGREDIENTS

CAS No. Component Approximate % Magnesium Silicate 1343-88-0 40

Component B * 60

* The identity of Component B is being withheld as a trade secret per 29CFR 1201.12(i).

4 FIRST AID MEASURES

MAGNESOL® 600R has not been evaluated as a single product. The information in this section pertains



mainly to Component B alone as Component A is only a mild irritant to eyes, skin, and respiratory passages.

Inhalation:

Remove to fresh air.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large glasses of water. If vomiting occurs spontaneously, keep airway clear and give more water.

Skin Contact:

Flush thoroughly with cool water under shower. Wash contaminated clothing and

thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with a directed stream of water for at least 15 minutes. Remove contact lenses if worn. Washing eyes within several seconds essential to

achieve maximum effectiveness.

For all of the above:

GET MEDICAL ATTENTION IMMEDIATELY

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

MAGNESOL® 600R is not explosive, flammable, or combustible.

Select the proper media to extinguish a surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEANUP METHODS:

Dry material can be swept or shoveled up. Avoid generating dust.

Flush residue with water. Observe environmental regulations.

Make sure that all personnel involved in housekeeping and spill clean-up follow good industrial hygiene practices and wear proper

personal protective equipment.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS:

Do not get in eyes. Avoid contact with skin and clothing. Avoid

breathing dust.

STORAGE PRECAUTIONS:

STORAGE CRITERIA:

Keep containers closed.

Store in clean steel or plastic containers. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead.

and zinc.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION:

No special requirements.

RESPIRATORS:

Wear a NIOSH/MSHA approved dust mask where airborne

contaminants occur.

PROTECTIVE GLOVES:

Wear chemical resistant gloves such as rubber, neoprene, or vinyl.

EYE PROTECTION:

Chemical goggles.

OTHER PROTECTION:

Full cover clothing.

HYGIENIC WORK ROUTINES:

Emergency shower and eyewash facility should be in close proximity

9 PHYSICAL AND CHEMICAL PROPERTIES

Magnesium silicate

Component B

Physical State @ 68°F Melting Point:

White powder 3470° F

2

White powder

complete

Absolute Density $(H_20 = 1)$:

2.10 - 2.20

insoluble

Solubility in Water:



Vapor Pressure:	N/A*	N/A*
Viscosity:	N/A*	N/A*
Boiling Point:	N/A*	N/A*
Vapor Density:	N/A*	N/A*
% Volatile:	N/A*	N/A*
Evaporation Rate:	N/A*	N/A*
Ignition Temperature:	N/A*	N/A**N/A - Not applicable

10 STABILITY AND REACTIVITY

Stability:

Stable

Polymerization:

Will not and cannot occur

Conditions and Materials to Avoid

Contact of Component B with acid creates heat and may cause spattering. Prolonged contact of Component B with metals such as aluminum, tin, lead, and zinc may produce flammable hydrogen gas

especially in the presence of moisture.

Note: In sufficient quantity, a filter cake composed of a flammable organic liquid absorbed on synthetic magnesium silicate or other filter materials such as diatomaceous earth, Perlite, or natural clays may be self-heating or possibly pyrophoric;

- A self-heating material is a material that, when in contact with air and without an energy supply, is liable to self-heat. A material of this type which exhibits spontaneous ignition or if the temperature of the sample exceeds 200 °C (392 °F) during the 24-hour test period when tested in accordance with UN Manual of Tests and Criteria, is classed as a Division 4.2 material.
- A pyrophoric material is a liquid or solid that, even in small quantities and without an external ignition source, can ignite within five (5) minutes after coming in contact with air when tested according to the UN Manual of Tests and Criteria.

11 TOXICOLOGICAL INFORMATION

Magnesium silicate:

A. Albino male rat:

Acute oral - LD50 > 5.0 g/kg

B. Albino rabbit:

Acute dermal - LD50 > 2.0 g/kg Primary Irritation Index 0.80

0 = No erythema (skin redness)

1 = Very slight erythema

C. Albino rabbit:

Eyes - Toxicity category III; irritation clearing in 7 days or less.

The above study was performed by Hill Top Biolabs, Inc. Cincinnati, OH, in 1989 and was specific to magnesium silicate with the formula MgO:2.6SiO₂. The conclusions of this test were:

- a. Magnesium silicate is classified as non-toxic by oral administration.
- b. It is not a primary skin irritant or a corrosive by dermal application.
- c. It is not classified as toxic by dermal administration.
- d. It is classified in Toxicity Category III by ocular administration.



11 TOXICOLOGICAL INFORMATION, continued

Component B:

OSHA Permissible Exposure Limit (PEL) and ACGIH Threshold Limit Value (TLV) have not been established. The recommended ceiling limit is 2 mg/m³ respirable dust.

This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens.

12 ECOLOGICAL INFORMATION

MAGNESOL® 600R is inorganic and not subject to biodegradation. There is no data available on the environmental fate of this material.

Magnesium silicate is not a known pollutant.

Component B is not a listed toxic chemical under SARA III, §302, §304, or §313. The high pH (alkalinity) of the undiluted or unneutralized material is harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: The components of *MAGNESOL®* 600R are not regulated under RCRA landfill requirements. However, it is the responsibility of the user of products to determine, at the time of disposal, whether the product falls under RCRA as a regulatory waste. The product uses, transformations, synthesis, mixtures, etc., may render the resulting end product subject to regulation. See Section 10 for additional information on filter cakes.

14 TRANSPORT INFORMATION

DOT CLASS:

Not applicable.

DOT Hazardous Substance:

Not applicable.

DOT Marine Pollutant:

Not applicable.

UN/NA NO.:

Not Classified

FREIGHT CLASSIFICATION:

NMFC - 48210 Column 55

IMO CLASS:

Not Classified

15 REGULATORY INFORMATION

The components of MAGNESOL® 600R are reported in the TOSCA Inventory, 1986. The components of MAGNESOL® 600R are not listed in Sections 302, 312, or 313 of SARA III.



16 OTHER INFORMATION

APPROXIMATE CHEMICAL FORMULA:

Magnesium silicate Component B MgO:2.6SiO₂ Trade secret

References A through C and E are specific to magnesium silicate with the approximate chemical formula MgO:2.6SiO₂:

- A. 21 CFR Part 182, Subpart C Generally recognized as safe.
- B. Chemical Toxicology of Commercial Products, Edition 4, 1976 No acute toxicology recognized.
- C. NIOSH Registry of Toxic Effects of Chemical Substances, Vol. 2, 1986 Irritation data: Human skin-300 micro gram/3 days. Very mild.
- D. American Conference of Government Industrial Hygienists The ACGIH does not list magnesium silicate in the substance index. A threshold limit value - time weighted average (TLV-TWA) of 10 mg/m³ of total dust is recommended for substances for which no specific TLVs have been assigned.
- E. Magnesium silicate with an approximate chemical formula of MgO:2.6SiO₂ is not listed in:
 - 1. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, 1988
 - 2. Industrial Hygiene and Toxicology, F. A. Patty
 - 3. Industrial Toxicology, Alice Hamilton and Harriet Hardy
 - 4. Toxicology of the Eye, W. Morton Grant
 - 5. Dangerous Properties of Industrial Materials, Sax and Lewis
 - 6. Government Publications:
 - a. NIOSH/OSHA Pocket Guide to Chemical Hazards
 - b. Registry of Toxic Effects of Chemical Substances
 - c. The Industrial Environment It's Evaluation and Control

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FOR MORE INFORMATION CALL 812-283-6675

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