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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Trade name : 1000 Series SPIN-GLAS®, 800 Series SPIN-GLAS®, 800

Series SPIN-GLAS® Ultra, Incombustible Hullboard,

Incombustible MICROLITE®, Micro-Flex®, Micro-Flex® Ultra,

Precipitator SPIN-GLAS®

Manufacturer or supplier's details

Company : Johns Manville Address : P.O. Box 5108

Denver, CO USA 80217-5108

Telephone : +1-303-978-2000

Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)

number

Company : Johns Manville Canada Inc.

Address : 5301 42 Avenue

Innisfail, AB Canada T4G 1A2

Telephone : +1-303-978-2000

Emergency telephone : 24-Hour Number: +1-800-424-9300 (CHEMTREC)

number

Recommended use of the chemical and restrictions on use

Recommended use : thermal and/or acoustic insulation
Restrictions on use : For professional users only.
Prepared by : productsafety@jm.com

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Glass fiber product

Hazardous components

Non-hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Regulations, when used as intended.

Relevant ingredients

Chemical name	CAS-No.	Concentration (% w/w)
non-biopersistent (biosoluble) glass fibers	Not Assigned	>= 80 - <= 90 %



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| >= 10 - <= 20 % cured urea-extended phenol-formaldehyde resin | Not Assigned

SECTION 4. FIRST AID MEASURES

General advice Handle in accordance with good industrial hygiene and safety

practice.

If inhaled Remove person to fresh air. If signs/symptoms continue, get

medical attention.

In case of skin contact In case of contact, flush skin with plenty of water for at least 5

minutes while removing contaminated clothing and shoes.

If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed Rinse mouth with water to remove dust or fibers and drink

> plenty of water to help reduce irritation. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there

is direct contact.

Abrasion effects should subside after cessation of exposure.

Protection of first-aiders If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Treat symptomatically. Notes to physician

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media Carbon dioxide (CO2)

Foam Dry powder Water none

Unsuitable extinguishing

media

Specific hazards during

firefighting

Under the influence of high temperatures, e.g. during a fire in the warehouse, decomposition products like carbon oxide may

be released due to the low content of organic compounds.

Hazardous combustion

products

carbon oxides

nitrogen oxides Hydrocarbons

Specific extinguishing

methods

for firefighters

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

: Avoid dust formation. Personal precautions,

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protective equipment and emergency procedures

Environmental precautions Should not be released into the environment.

Methods and materials for

Clean up promptly by scoop or vacuum.

Pick up and arrange disposal without creating dust. containment and cleaning up

SECTION 7. HANDLING AND STORAGE

fire and explosion

Advice on protection against : No special protective measures against fire required.

Smoking, eating and drinking should be prohibited in the Advice on safe handling

application area.

Minimize dust generation and accumulation.

Do not breathe vapours/dust.

Do not get in eyes or mouth or on skin. For personal protection see section 8.

Conditions for safe storage

Materials to avoid

Keep in a dry, cool place.

No materials to be especially mentioned.

Further information on

storage stability

Stable at normal ambient temperature and pressure.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Synthetic vitreous fibers, glass wool fibers	Not Assigned	TWA (fibers)	1 fibers/cm3	ACGIH
Fibrous glass dust	Not Assigned	TWA	3 fibers/cm3	NIOSH REL
		TWA (total)	5 mg/m3	NIOSH REL
Inert or Nuisance Dust	Not Assigned	TWA (total dust)	15 mg/m3	OSHA
		TWA (respirable fraction)	5 mg/m3	OSHA
Synthetic Vitreous Fibres (Man Made Mineral Fibres) – Glass wool fibres	Not Assigned	TWA	1 fibers/cm3	CA ON OEL
		TWA	1 fibers/cm3	CA ON OEL
		TWA	1 fibers/cm3	CA BC OEL
		TWA (fibers)	1 fibers/cm3	CA AB OEL
Fibres-Artificial Vitreous Mineral Fibres	Not Assigned	TWAEV (fibers)	2 fibers/cm3	CA QC OEL

As a member of the North American Insulation Manufacturers Association (NAIMA), Johns Manville subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, Johns Manville recommends that exposures be limited to the NAIMA-OSHA voluntary Permissible



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Exposure Limit (vPEL) of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations for exposures over the vPEL. For more information, see NAIMA's Health and Safety Reference Library (website: http://insulationinstitute.org/tools-resources/resource-library/health-safety/) to find the Product Stewardship Program Pocket Folder (N052) and other Fact Sheets.

Engineering measures

During initial heat-up to operating temperatures above 177 °C (350 °F), thermal decomposition of the organic binder/sizing

may occur.

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or

guidelines

If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment

process.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

During initial heat-up to operating temperatures above 177 °C (350 °F), thermal decomposition of the organic binder/sizing

may occur.

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or

guidelines.

If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment

process.

Hand protection

Material : Protective gloves

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear protective clothing, such as long-sleeved shirts and

pants.

Remove and wash contaminated clothing before re-use.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid
Colour : colored
Odour : slight

Odour Threshold : No data available pH : Not applicable

Not applicableNot applicable

Flash point : Not applicable Evaporation rate : Not applicable

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Flammability (solid, gas) : Not applicable

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents

Partition coefficient: n-

octanol/water

Auto-ignition temperature : No data available Thermal decomposition : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

None known.

: No data available

: Not applicable

Conditions to avoid : Exposure to moisture Incompatible materials : hydrofluoric acid

Hazardous decomposition : Thermal decomposition can lead to release of irritating gases

products and vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA (29 CFR 1910 Subpart Z, Toxic and

Hazardous Substances).

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.



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Further information

Product:

Remarks: During initial heat-up to operating temperatures above 177 °C (350 °F), thermal decomposition of the organic binder/sizing may occur. Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.

Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact. Abrasion effects should subside after cessation of exposure.

Remarks: Trace amounts of formaldehyde may be released when in contact with moisture, including humidity. This release is most prevalent in conditions of high heat and humidity.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

Due to the properties of the product, a hazard to the

environment may not be expected.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of contents/ container to an approved facility in

accordance with local, regional, national and international

regulations.



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SECTION 14. TRANSPORT INFORMATION

International transport regulations

Land transport

USDOT: Not classified as a dangerous good under transport regulations TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

SECTION 15. REGULATORY INFORMATION

TSCA list

TSCA - 5(a) Significant New Use Rule List of : Not relevant

Chemicals

U.S. Toxic Substances Control Act (TSCA) Section : Not relevant

12(b) Export Notification (40 CFR 707, Subpart D)

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

: Since these products are considered articles according to most of the international chemical regulations, they or their constituents need not be listed on the national inventories.

SECTION 16. OTHER INFORMATION

Further information

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA ON OEL : Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

CA QC OEL : Québec. Regulation respecting occupational health and

safety, Schedule 1, Part 1: Permissible exposure values for

airborne contaminants

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA BC OEL / TWA : 8-hour time-weighted average
CA ON OEL / TWA : Time-Weighted Average Limit (TWA)
CA QC OEL / TWAEV : Time-weighted average exposure value

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -



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Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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