

1 Identification

- **Product identifier**
- **Trade name:** Resbond 989FS
- **Article number:** 989FS
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Cotronics Corp
131 47th Street
Brooklyn, NY 11232
USA
- **Information department:** In the event of an emergency please call Chemtrec at 1 800-424-9300 (24 hour)

* 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves / eye protection / face protection.
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P330 Rinse mouth.
P302+P352 If on skin: Wash with plenty of water.
P321 Specific treatment (see on this label).
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 0
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

* 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Nonhazardous materials will not be listed separately.

When encapsulated in a liquid mixture, powders are not expected to pose a health hazard when processed under normal conditions of use.

· **Components:**

1310-73-2 Sodium Hydroxide

0.5-<1%

1312-76-1 Silicate

2.5-<10%

* 4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

Move to a place with fresh air and keep at rest.

Obtain medical attention if needed.

· **After skin contact:** Immediately rinse with water.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Get medical attention

· **After swallowing:** Do not induce vomiting; immediately call a doctor.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

* 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** CO2, extinguishing powder or water spray.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters** Wear self-contained breathing apparatus, if necessary

· **Protective equipment:** Use personal protective equipment.

* 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* 7 Handling and storage

· **Handling:**

· **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Keep in sealed containers

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep sealed container(s) at room temperature

Recommended to keep in a cool, dry condition atmosphere.

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· **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:**

Personal protection is required while machining this material. Use suitable face/eye/hand protection.

Precautions to be taken AFTER use and upon removal

This product as manufactured is a Silicate which contains encapsulated silica. It is not considered respirable in the liquid form or cured form. If the cured cement is heated the silica could transform to mullite and cristobalite (a form of crystalline silica). Removal of this product in the cured state is by mechanical means. This may cause the generation of dust, repeated inhalation of respirable, free crystalline silica dust may cause lung injury (silicosis).

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:** Impervious gloves

· **Eye protection:**



Tightly sealed goggles

* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Suspension

Color: Whitish

· **Odor:** Odorless

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not Applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not Applicable

Upper: Not Applicable.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

· **Density at 20 °C (68 °F):** 2.56 g/cm³ (21.36 lbs/gal)

· **Solubility in / Miscibility with**

Water: Insoluble.

· **Solvent content:**

Organic solvents: 0.0 %

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· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, air, water/moisture, oxidizing agents (Lithium hydroxide monohydrate)
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** Irritating to skin.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the materials are listed
- **NTP (National Toxicology Program)**
None of the materials are listed
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the materials are listed

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

* 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Dispose material in accordance with federal, state, local and international regulations.

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*14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA**
- **UN proper shipping name**
- **DOT, ADR, IMDG, IATA**
- **Transport hazard class(es)**
- **DOT**

Not Regulated for Transport

Not Regulated for Transport



- **Class**

Not Regulated for Transport

- **ADR, IMDG, IATA**



- **Class**
- **Packing group**
- **DOT, ADR, IMDG, IATA**
- **Environmental hazards:**
- **Marine pollutant:**
- **Special precautions for user**
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- **UN "Model Regulation":**

Not Regulated for Transport

Not Regulated for Transport

No

Not applicable.

Not applicable.

Not Regulated for Transport

*15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture** No further relevant information available.
- **SARA**
- **Section 313 (specific toxic chemical listings):**
- 1344-28-1 Alumina Oxide
- **Section 302 (extremely hazardous substance):**
- None of the ingredients are listed
- **Section 304 (emergency release notification):**
- None of the ingredients are listed
- **Sections 311/312 (hazards)**
- 1344-28-1 Alumina Oxide: Chronic, Acute
- **TSCA (Toxic Substances Control Act):**
- None of the ingredients is listed.
- **Proposition 65**
- **Chemicals known to cause cancer:**
- None of the ingredients are listed
- **Chemicals known to cause reproductive toxicity:**
- None of the materials are listed
- **Chemicals known to cause reproductive toxicity for females:**
- None of the materials are listed
- **Chemicals known to cause reproductive toxicity for males:**
- None of the materials are listed
- **Chemicals known to cause developmental toxicity:**
- None of the materials are listed
- **Pennsylvania Right To Know Components**
- 1344-28-1 Alumina Oxide
- 1310-73-2 Sodium Hydroxide
- 11138-66-2 Polysaccharide
- **Massachusetts Right To Know Components**
- 1344-28-1 Alumina Oxide
- 1310-73-2 Sodium Hydroxide

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· **New Jersey Right To Know Components**

1344-28-1 Alumina Oxide

1310-73-2 Sodium Hydroxide

11138-66-2 Polysaccharide

· **Rhode Island Right To Know Components**

None of the ingredients are listed

· **Minnesota Right To Know Components**

None of the ingredients are listed

· **Florida Right To Know Components**

None of the ingredients are listed

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed

· **TLV (Threshold Limit Value)**

1344-28-1 Alumina Oxide: A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

If none of the ingredients are listed

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard statements**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· **Precautionary statements**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P330 Rinse mouth.

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P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

To the best of our knowledge, the information contained herein is correct. Cotronics does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. We do not guarantee that the hazards described herein are the only hazards that exist.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Dr. Alan Reznik

· **Date of preparation / last revision** 12/13/2021 / 10

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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Printing date 12/13/2021

Revised on 10/22/2021

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Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

· *** Data compared to the previous version altered.**