

SDS No. MW0005
Date of Issue: June 1998

Date of Last Revision: December/15/2015

1. IDENTIFICATION

- (a) **Product identifier used on the label** MaxRigidizer
- (b) **Other means of identification** MaxRigidizer (2300°F, 2700°F)
- (c) **Recommended use of the chemical and restrictions on use** **Primary Use:**
Is used for applications with high velocity or flame impingement on ceramic wools. Rigidizer can be applied to the surface of Blanket, Modules or other high temperature insulations by spraying or brushing this to hardening agent for Fiber and Ceramic Products.
- (d) **Name, address, and telephone number**
- | | |
|-------------------------------|-----------------------------------|
| Nutec México. | Nutec USA |
| Jardin de San Jeronimo 225 | 11830 Mt. Holly-Huntersville Rd |
| Colonia San Jeronimo | Huntersville, NC 28078 |
| 64640 Monterrey, N.L., México | Toll Free USA: +1 (855) 596-24-27 |
| Phone (MX): +52(81) 8151-4646 | |
- FOR NUTEC PRODUCT STEWARDSHIP ASSISTANCE CALL
+1 (877) 318-2430
- For additional information or SDSs, visit our web page,**
<http://www.nutec.com> or call at
+1 (877) 318-2430
- (e) **Emergency phone number** FOR A CHEMICAL EMERGENCY,
CALL +1 (877) 318-2430 Emergency number

2. HAZARDS IDENTIFICATION

- (a)
- Classification of the chemical in accordance with GHS**

Not classified

Hazard Pictogram**Signal Word**

Warning

Hazard StatementsCauses mild skin irritation
Causes mild eye irritation
May cause respiratory irritation

Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1. Substance**

This product is a mixture

3.2. For mixtures

(a) hemical and (b) Common Name	(c) AS Number	% BY WEIGHT
Silica, amorphous	7631-86-9	10 - 30
Aluminum Oxide Hydroxide	24623-77-6	1 - 15
Water	7732-18-5	25 - 70

4. FIRST AID MEASURES

(a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

General Advice

Show this safety datasheet to the doctor in attendance.

First responder needs to protect herself..

INHALATION

Negligible or unlikely exposure pathway.

SKIN

Wash with water, use skin cream if necessary.

Remove all contaminated clothing, and launder before reuse.

EYES

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

INGESTION

Immediately rinse mouth with water.

Seek medical advice if necessary.

See toxicological information (Section 11)

(b) Most important symptoms/effects, acute and delayed

Skin contact may aggravate existing skin disease.

(c) Indication of immediate medical attention and special treatment needed, if necessary

NOTES TO PHYSICIANS

- All treatments should be based on observed signs and symptoms of distress in the patient.
- Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

(a) Suitable (and unsuitable) extinguishing media

Use extinguishing agent suitable for surrounding combustible materials.

(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Non-combustible product, class of reaction to fire is zero.
Packaging and surrounding materials may be combustible

Specific extinguishing methods:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

(c) Special protective equipment and precautions for fire-fighters

NFPA Codes: Flammability: 0 Health: 0 Reactivity: 0 Special: 0

6. ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, protective equipment, and emergency procedures

Refer to protective measures listed in sections 7 and 8.

(b) Methods and materials for containment and cleaning up

Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contains material to ensure runoff does not reach a waterway.

EMPTY CONTAINERS

Product packaging may contain residue. Do not reuse.

7. HANDLING AND STORAGE**(a) Precautions for safe handling**

Wash hands thoroughly after handling. Use only with adequate ventilation.

(b) Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep container tightly closed.

Keep in properly labelled containers.

Store in an area that is dry, well-ventilated; away from compatible materials (see Section 10. Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available**

<u>Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS #</u>
Aluminum Oxide	15 mg/m ³ , total dust	10 mg/m ³	24623-77-6
Hydroxide	5 mg/m ³ , respirable dust		

Unless otherwise noted, all values are reported as 8-hour Time-Weighted-Averages (TWA) and total dust (particulates only).

(b) Appropriate engineering controls

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

(c) Individual protection measures, such as personal protective equipment**Eye protection:**

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Safety glasses

Hand protection:

Wear protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection:

Wear suitable protective clothing.

Respiratory protection:

No personal respiratory protective equipment normally required.

Hygiene measures:

Wash hands before breaks and immediately after handling the product. Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

HUMAN EXPOSURE CHARACTERIZATION:

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

9. PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance	Liquid	(j) Upper/lower flammability or explosive limits	Not applicable
(b) Odor	Odorless	(k) Vapor pressure	Not applicable
(c) Odor threshold	Not applicable	(l) Vapor density	Not applicable
(d) pH	6 – 9 ASTM E70	(m) Relative density	1.0 - 2.0
(e) Melting point	Not applicable	(n) Solubility	Insoluble
(f) Initial boiling point and boiling range	Not applicable	(o) Partition coefficient: n-octanol/water	Not applicable
(g) Flash point	Not applicable	(p) Auto-ignition temperature	Not applicable
(h) Evaporation rate	Not applicable	(q) Decomposition temperature	Not applicable
(i) Flammability	Not applicable	(r) Viscosity	Not applicable

10. STABILITY AND REACTIVITY**(a) Reactivity**

No data available

(b) Chemical stability

Stable under normal handling and storage conditions

(c) Possibility of hazardous reactions

None.

(d) Conditions to avoid

None know.

(e) Incompatible materials

Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.

(f) Hazardous decomposition products

Carbon oxides

11. TOXICOLOGICAL INFORMATION**a) Likely routes of exposure**

Inhalation not likely.

Skin likely mode of exposure.

Eyes likely mode of exposure.

Ingestion not likely.

b) Symptoms related to the physical, chemical and toxicological characteristics

Inhalation None.

Skin Irritant. Can cause redness, irritation, inflammation, on prolonged contact.

Eyes Irritant. Can cause redness, irritation.
Ingestion None.

c) Immediate, delayed and chronic effects from short- and long-term exposure

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

d) Numerical measures of toxicity

Acute oral toxicity:

Rat: > 15,380 mg/kg

Test substance: Product

Acute toxicity estimate: > 5,000 mg/kg

Acute inhalation toxicity:

Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h

Acute dermal toxicity:

Acute toxicity estimate: > 5,000 mg/kg

Skin corrosion/irritation:

Result: 0.3

Method: Draize Test

Test substance: Product

Serious eye damage/eye irritation:

Result: 3.7

Method: Draize Test

Test substance: Product

Respiratory or skin sensitization:

No data available

Carcinogenicity:

No data available

Reproductive effects:

No data available

Germ cell mutagenicity:

No data available

Teratogenicity:

No data available

STOT - single exposure:

No data available

STOT - repeated exposure:

No data available

Aspiration toxicity:

No data available

e) Carcinogenicity

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

12. ECOLOGICAL INFORMATION (Non-mandatory)

- (a) **Ecotoxicity (aquatic and terrestrial, where available)** LC50 Bluegill Sunfish: > 1,000 mg/l
Exposure time: 96 hrs.
Test substance: Product
- LC50 Rainbow Trout: > 1,000 mg/l
Exposure time: 96 hrs.
Test substance: Product
- (b) **Persistence and degradability** Not relevant, inorganic product.
- (c) **Bioaccumulative potential** No bioaccumulative potential available.
- (d) **Mobility in soil** Air <5%
Water 30-50%
Soil 50-70%
Ultimate destination sediment.
- (e) **Other adverse effects (such as hazardous to the ozone layer)** No adverse effects of this material on the environment are anticipated.

13. DISPOSAL CONSIDERATIONS (Non-mandatory)**13.1 Waste Disposal Method**

Advice on disposal Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations.

Consult state and local regulations regarding the proper disposal of this material.

Waste Code EPA: hazardous waste: NO

13.2 Contaminated packaging Advice

- Any containers or equipment used should be decontaminated immediately after use.
- Empty container should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION (Non-mandatory)

- (a) **UN number** Not Applicable
- (b) **UN proper shipping name** Not Applicable
- (c) **Transport hazard class(es)** Not Applicable
- (d) **Packing group, if applicable** Not Applicable
- (e) **Environmental hazards (e.g., Marine pollutant (Yes/No))** Not a marine pollutant
- (f) **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)** Not Applicable
- (g) **Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises** Not Applicable

Canadian TDG Hazard Class & PIN: Not regulated. Not classified as dangerous goods under ADR (road), RID (train) or IMDG (ship).

15. REGULATORY INFORMATION (Non-mandatory)

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:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

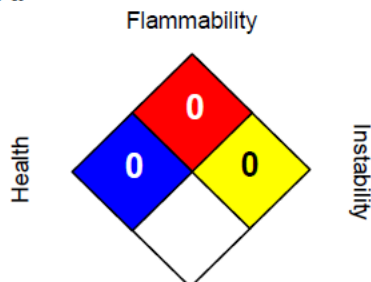
KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

16. OTHER INFORMATION

NFPA:


Special hazard.

HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

Revision Summary: Entire SDS revised to align with OSHA HCS 2012

Revision Date: December/02/2015

SDS Prepared By: Nutec Fibratec, S.A. de C.V.

DISCLAIMER

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgment; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, [manufacturer name] does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.