

Safety Data Sheet

BOREPLEX

SDS Revision Date: **07/25/2024**

1. Identification

1.1. Product identifier

Product Identity

BOREPLEX

Alternate Names

Blend of Metal Oxides

1.2. Relevant identified uses of the substance or mixture and application method

Intended use

Viscosifier

Application Method

See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name

Right Turn Supply LLC
204 SE Ninth Street
Pella, IA 50219 USA

Emergency

CHEMTREC (USA)

(800) 424-9300

24 hour Emergency Telephone No.

International +1-703-527-3887

Customer Service: NorthStar Fluid Solutions

(281) 413-1939



2. Hazard(s) identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram-None

Signal word

Hazard Statement(s)

Precautionary statement(s)

None

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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3. Composition/information on ingredients

3.1 Substance

Synonyms: Blend of Metal Oxides

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Magnesium compound	1309-48-4	20%	Combustible dust
Sodium compound	1313-59-3	20%	Combustible dust
Aluminum compound	1344-28-1	60%	Combustible dust

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove victim to fresh air. Consult medical personnel.
Eyes	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
Skin	Wash off with soap and plenty of water. Consult a physician.
Ingestion	Flush oral cavity and give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person).

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Product may irritate eyes, skin, mucous membranes and upper respiratory tract with overexposure. Prolonged inhalation (chronic) of dust may result in lung damage.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable for all regular extinguishing materials. Do not use high pressure water jet.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid creating dust. Use MSHA-NIOSH approved respirator for dusts, mists and fumes whose TLV is greater than 0.05 mg/m³. Avoid breathing vapors, mist, or gas. For personal protection see section 8.

6.2. Environmental precautions

None known.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable close containers for disposal.

6.4 Neutralizing Chemicals

Dilute Acid.

7. Handling and storage

7.1. Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Air and moisture sensitive. Keep in a dry place. Storage class (TRGS 510): Non Combustible Solids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls and personal protection

CAS No.	Ingredient	Source	Value
1309-48-4	Magnesium compound	OSHA TLV	15 mg/m ³ TWA
		Table 2 limits for air contaminants	
		ACGIH TLV	10 mg/m ³ TWA
		Remarks	Upper respiratory tract irritation metal fume fever not classifiable as a human carcinogen
1313-59-3	Sodium compound	None	none
1344-28-1	Aluminum compound	OSHA PEL	15 mg/m ³ TWA Total
		OSHA PEL	5 mg/m ³ TWA Respirable (Al)
		ACGIH TLV	10 mg/m ³ TWA Al

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8.2. Exposure controls

Respiratory	Reparatory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eyes	Use chemical splash goggles or glasses.
Skin	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Other Work Practices	Where splash is possible, full chemically resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work-station location. Do not let product enter drains.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Solid, powder. White to Off-White
Odor	Odorless
Odor threshold	No data available
pH	10.9-11.9
Melting point / freezing point	> 500 C
Initial boiling point and boiling range	No data available
Flash Point	Not known
Evaporation rate (Ether = 1)	No data available
Flammability (solid, gas)	Carbon monoxide and carbon dioxide may form on combustion.
Upper/lower flammability or explosive limits	No data available
Vapor pressure (Pa)	No data available
Vapor Density	No data available
Specific Gravity	No data available
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	Not known
Decomposition temperature	No data available
Viscosity (cSt)	No data available
Density (lbs/gal)	No data available

9.2. Other information

No data available

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10. Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Mixture with strong acids produces considerable heat.

10.5. Incompatible materials

Avoid contact with the following: copper, tin, zinc, aluminum, and their alloys.

10.6. Hazardous decomposition products

Will not occur. In the event of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute Toxicity

Inhalation

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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.
ACGIH:	No component of this product present as levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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.

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Reproductive toxicity

No data available

Specific target organ toxicity-single exposure

No data available

Specific target organ toxicity-repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Ingestion or inhalation of large quantity may cause feverish reaction and leukocytosis-diarrhea. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

12.1. Aquatic Toxicity

Please contact our office for the most up to date information.

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 PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted

12.6. Other adverse effects

When released into the soil, this material is not expected to biodegrade and may leach into groundwater.

13. Disposal considerations

13.1. Waste treatment methods

Methods Product

Do not allow residue to flow into drainage system. Waste disposal according to regulations of responsible local authority.

Contaminated packaging

Waste disposal according to regulations of responsible local authority.

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14. Transport information

DOT (US)

Not regulated for transportation by DOT, TDG, IMDG, ICAO/IATA

IMDG

Not regulated for transportation by DOT, TDG, IMDG, ICAO/IATA

IATA

Not regulated for transportation by DOT, TDG, IMDG, ICAO/IATA

15. Regulatory information

SARA 302 Components

None. If no components are listed below, this product is not subject to the referenced SARA and regulations.

SARA 313 Components

None. If no components are listed below, this product is not subject to the referenced SARA and regulations.

SARA 311/312 HAZARDS

No

Massachusetts Right To Know Components

Does not apply.

Pennsylvania Right To Know Components

Does not apply.

New Jersey Right to Know Components

Does not apply.

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16. Other information

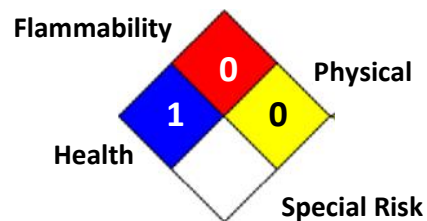
This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and local law and regulations. Right Turn Supply LLC makes no warranty of any kind, express or implied, concerning the accuracy of completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Right Turn Supply LLC will not be liable for claims relating to any use of this product.

Emergency Overview:

Risk Classification System:

HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PPE	E



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