

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : PowerZyme
Product code : 1344

1.2. Recommended use and restrictions on use

Recommended use : Carpet powders

1.3. Supplier

Synthetic Labs
24 Victory Lane
Dracut, MA 01826 - United States
T 800.255.4050 - F 978.957.5122
www.syntecpro.com

1.4. Emergency telephone number

Emergency number : Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 Causes skin irritation
Serious eye damage/eye irritation Category 2 Causes serious eye irritation

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : Causes skin irritation
Causes serious eye irritation
Precautionary statements (GHS US) : Wash hands, forearms and face thoroughly after handling.
Wear eye protection, protective gloves.
If on skin: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instruction on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name | Product identifier | % | GHS US classification |
|---------------------------------------|---------------------|---------|--|
| Sodium Silica Salts | (CAS-No.) 1344-09-8 | 20 – 30 | Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| Sodium Tripolyphosphate | (CAS-No.) 7758-29-4 | 5 – 10 | Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| Nitrolioriacetic acid, trisodium salt | (CAS-No.) 5064-31-3 | 5 – 10 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| |
|--|
| PowerZyme |
| No additional information available |
| Nitrilotriacetic acid, trisodium salt (5064-31-3) |
| No additional information available |
| Sodium Tripolyphosphate (7758-29-4) |
| No additional information available |
| Sodium Silica Salts (1344-09-8) |
| No additional information available |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Color | : white |
| Odor | : Fresh |
| Odor threshold | : No data available |
| pH | : No data available |
| pH solution | : 10 – 11 |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|---|---------------------|
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : Not applicable |
| Solubility | : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| Nitrilotriacetic acid, trisodium salt (5064-31-3) | |
|--|---|
| LD50 oral rat | 1740 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LC50 inhalation rat (mg/l) | > 5 mg/l (4 h, Rat, Male, Experimental value, Inhalation (aerosol), 14 day(s)) |

| Sodium Tripolyphosphate (7758-29-4) | |
|--|--|
| LD50 oral rat | > 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 4640 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 14 day(s)) |
| LC50 inhalation rat (mg/l) | > 0.39 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s)) |

| Sodium Silica Salts (1344-09-8) | |
|--|--------------------------|
| LD50 oral rat | > 2000 mg/kg (Rat, Oral) |

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|--|---------------------|
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified. |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after skin contact | : Irritation. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| Nitrilotriacetic acid, trisodium salt (5064-31-3) | |
|--|---|
| LC50 fish 1 | 114 mg/l (APHA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| EC50 Daphnia 1 | 98 mg/l (96 h, Gammarus sp., Flow-through system, Fresh water, Experimental value) |
| ErC50 (algae) | > 91.5 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodemus subspicatus, Static system, Fresh water, Experimental value, GLP) |
| Sodium Tripolyphosphate (7758-29-4) | |
| LC50 fish 1 | > 1850 mg/l (AFNOR, 24 h, Danio rerio, Fresh water, Experimental value) |
| EC50 Daphnia 1 | > 100 mg/l (EPA OTS 797.1930, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 160 mg/l (ISO 8692, 4 day(s), Desmodemus subspicatus, Fresh water, Experimental value) |
| Sodium Silica Salts (1344-09-8) | |
| LC50 fish 1 | 3185 mg/l (96 h, Brachydanio rerio, Pure substance) |
| EC50 Daphnia 1 | 216 mg/l (96 h, Daphnia magna, Pure substance) |
| EC50 Daphnia 2 | 160 mg/l (96 h, Amphipoda, Pure substance) |

12.2. Persistence and degradability

| Nitrilotriacetic acid, trisodium salt (5064-31-3) | |
|--|--|
| Persistence and degradability | Biodegradable in the soil. Readily biodegradable in water. |
| Chemical oxygen demand (COD) | 0.625 g O ₂ /g substance |
| Sodium Tripolyphosphate (7758-29-4) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| Sodium Silica Salts (1344-09-8) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

| Nitrilotriacetic acid, trisodium salt (5064-31-3) | |
|--|--|
| BCF fish 1 | 1 – 3 (96 h, Brachydanio rerio, Fresh water, Experimental value) |
| Partition coefficient n-octanol/water (Log Pow) | -13.2 – -2.62 (Calculated, 25 °C) |
| Bioaccumulative potential | Not bioaccumulative. |

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Sodium Tripolyphosphate (7758-29-4) | |
|--|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

| Sodium Silica Salts (1344-09-8) | |
|--|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| Nitrilotriacetic acid, trisodium salt (5064-31-3) | |
|--|--|
| Partition coefficient n-octanol/water (Log Koc) | 1.419 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

| Sodium Tripolyphosphate (7758-29-4) | |
|---|---------------------------------------|
| Partition coefficient n-octanol/water (Log Koc) | 2.15 (log Koc, Experimental value) |
| Ecology - soil | Low potential for adsorption in soil. |

| Sodium Silica Salts (1344-09-8) | |
|--|--|
| Ecology - soil | No (test)data on mobility of the components available. |

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

| Nitrilotriacetic acid, trisodium salt (5064-31-3) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Sodium Tripolyphosphate (7758-29-4) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

| Sodium Silica Salts (1344-09-8) |
|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |

15.2. International regulations

CANADA

| Nitrilotriacetic acid, trisodium salt (5064-31-3) |
|--|
| Listed on the Canadian DSL (Domestic Substances List) |

| Sodium Tripolyphosphate (7758-29-4) |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

PowerZyme

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Silica Salts (1344-09-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

| Component | State or local regulations |
|------------------------------------|--|
| Sodium Tripolyphosphate(7758-29-4) | U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 03/20/2017

Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.