

**Gypsum**

Version 5.0

Issue Date : 07/17/2019
Revision Date : 07/17/2019

Ref. 130000051721

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Gypsum
Tradename/Synonym : Calcium Sulfate Dihydrate
formerly MSDS# SP1841

Product Use : Industrial processing, For industrial use only.

Restrictions on use : Do not use product for anything outside of the above specified uses.
Manufacturer/Supplier : DuPont
974 Centre Road
Wilmington, DE 19805, USA

Product Information : 1-800-931-3456
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category
Combustible dust

Label content

Pictogram : not required

Signal word : Warning

Hazardous warnings : May form combustible dust concentrations in air.

Hazardous prevention measures : not required



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Other hazards

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 100 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Calcium sulfate, dihydrate	10101-41-4	88 - 100 %
Limestone	1317-65-3	0 - 3 %
Water	7732-18-5	0 - 12 %

The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.
Inhalation : If large amounts of dust are inhaled, remove to fresh air.

Skin contact : No hazards which require special first aid measures.

Eye contact : Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion : Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

Most important symptoms/effects, acute and delayed : No applicable data available.
Protection of first-aiders : No applicable data available.
Notes to physician : No applicable data available.

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SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : No applicable data available.
- Specific hazards : Not a fire or explosion hazard.
- Special protective equipment for firefighters : No applicable data available.
- Further information : No applicable data available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : No applicable data available.
- Environmental precautions : No applicable data available.
- Spill Cleanup : Shovel or sweep up. Avoid generating dust.
- Accidental Release Measures : No applicable data available.

SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Wash hands thoroughly after handling. Wash clothing after use. Avoid breathing dust.
- Handling (Physical Aspects) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : No applicable data available.



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Storage period : No applicable data available.

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin and body protection : None specified.

Exposure Guidelines

Exposure Limit Values

Calcium sulfate, dihydrate			
REL	(NIOSH)	5 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Respirable
REL	(NIOSH)	10 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek total
PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	8 hr. TWA total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	8 hr. TWA respirable fraction
PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	TWA Total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA respirable dust fraction
TLV	(ACGIH)	10 mg/m3	TWA Inhalable fraction Calcium

Limestone

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PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	8 hr. TWA total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	8 hr. TWA respirable fraction
PEL (Permissible Exposure Limit)	(OSHA)	15 mg/m3	TWA Total dust
PEL (Permissible Exposure Limit)	(OSHA)	5 mg/m3	TWA respirable dust fraction
REL	(NIOSH)	5 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek Respirable Calcium carbonate
REL	(NIOSH)	10 mg/m3	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek total Calcium carbonate

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : powder
Color : off-white, white

Odor : none

Odor threshold : No applicable data available.

pH : 6.4

Melting point/freezing point : Melting point
1,450 °C (2,642 °F)

Boiling point/boiling range : No applicable data available.

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Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : May form combustible dust concentrations in air.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative density) : 2.32 - 2.96

Water solubility : No applicable data available.

Solubility(ies) : No applicable data available.

Partition coefficient: n-octanol/water : No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.

Chemical stability : No applicable data available.

Possibility of hazardous reactions : No applicable data available.

Conditions to avoid : No applicable data available.

Incompatible materials : Acids

Hazardous decomposition : Hazardous combustion products: Sulphur oxides

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SECTION 11. TOXICOLOGICAL INFORMATION

Calcium sulfate, dihydrate

- Inhalation : Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
- Oral LD50 : > 2,000 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
Information given is based on data obtained from similar substances.
- Eye irritation : No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
Information given is based on data obtained from similar substances.
- Skin sensitization : Does not cause skin sensitisation., Guinea pig
- Repeated dose toxicity : Ingestion
Rat
- 45 d
NOAEL: 100 mg/kg
LOAEL: 300 mg/kg Method: OECD Test Guideline 422
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification.
- Carcinogenicity : Animal testing did not show any carcinogenic effects.
- Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
- Teratogenicity : Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

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- Inhalation : Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Information given is based on data obtained from similar substances.
- Dermal LD50 : > 2,000 mg/kg , Rat
Information given is based on data obtained from similar substances.
- Oral LD50 : > 2,000 mg/kg , Rabbit
Information given is based on data obtained from similar substances.
- Skin irritation : No skin irritation, Rabbit
Information given is based on data obtained from similar substances.
- Eye irritation : No eye irritation, Rabbit
Minimal effects that do not meet the threshold for classification.
Information given is based on data obtained from similar substances.
- Skin sensitization : Does not cause skin sensitisation., Mouse
Information given is based on data obtained from similar substances.
- Repeated dose toxicity : Ingestion
Rat
- 48 d
NOAEL: > 1,000 mg/kg Method: OECD Test Guideline 422
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
- Inhalation
Rat
- 90 d
dust/mist
NOAEL: > 0.212 mg/l Method: OECD Test Guideline 413
No toxicologically significant effects were found., Information given is based on data obtained from similar substances.
- Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Overall weight of evidence indicates that the substance is not mutagenic.

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Information given is based on data obtained from similar substances.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Information given is based on data obtained from similar substances.

Teratogenicity : Animal testing showed no developmental toxicity.
Information given is based on data obtained from similar substances.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION**Aquatic Toxicity****Calcium sulfate, dihydrate**

96 h LC50 : Oryzias latipes (Orange-red killifish) > 100 mg/l OECD Test Guideline 203

72 h EC50 : Pseudokirchneriella subcapitata (green algae) > 100 mg/l OECD Test Guideline 201

48 h EC50 : Daphnia magna (Water flea) > 100 mg/l OECD Test Guideline 202

Limestone

96 h LC50 : Oncorhynchus mykiss (rainbow trout) OECD Test Guideline 203
No acute toxicity effects at concentrations up to the limit of aqueous solubility
Information given is based on data obtained from similar substances.

72 h EC50 : Desmodesmus subspicatus (green algae) OECD Test Guideline 201
No acute toxicity effects at concentrations up to the limit of aqueous solubility
Information given is based on data obtained from similar substances.

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72 h NOEC : Desmodesmus subspicatus (green algae) OECD Test Guideline 201
Aquatic toxicity is unlikely due to low solubility.
Information given is based on data obtained from similar substances.

48 h EC50 : Daphnia magna (Water flea) OECD Test Guideline 202
No acute toxicity effects at concentrations up to the limit of aqueous
solubility
Information given is based on data obtained from similar substances.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - : Dispose of in accordance with local regulations.
Product
Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : On the inventory, or in compliance with the inventory

SARA 311/312 Hazard classification : Combustible dust

SARA 313 Regulated Chemical(s) : 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 substances requiring a warning under the Safe Drinking Water and Toxic Enforcement Act.

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SECTION 16. OTHER INFORMATION

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Contact person : SDS Coordinator

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Gypsum

Components: Calcium sulfate, dihydrate, CAS No. 10101-41-4; Limestone, CAS No. 1317-65-3; Water, CAS No. 7732-18-5

Warning

Hazard statements: May form combustible dust concentrations in air.

Supplemental information: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. High concentrations of dust can irritate eyes, nose and respiratory system and cause coughing and sneezing.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 100 %

Refer to Safety Data Sheet (SDS) for further information.

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Wilmington, DE 19805, USA

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