



MULTIFEX-MM®

Safety Data Sheet

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

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Substance name : MULTIFEX-MM®
Chemical name : Precipitated Calcium Carbonate
CAS No : 471-34-1
Product code : C-MS-AT-2007ADMULTIFEX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Mineral Additive

1.3. Details of the supplier of the safety data sheet

Specialty Minerals Inc.,
260 Columbia Street,
Adams,
MA 01220
U.S.A

Tel. 1-877-684-7627

1.4. Emergency telephone number

Emergency number : +1 760-476-3962
3E Global Emergency Response Services. Access code: 333336 (if you mention SDS name and company name-you don't need the access code)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : MULTIFEX-MM®
CAS No : 471-34-1
EC no : 207-439-9

Name	Product identifier	%	Classification (GHS-US)
MULTIFEX-MM® (Main constituent)	(CAS No) 471-34-1	60 - 100	Not classified

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop obtain medical attention.

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First-aid measures after skin contact	: Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms develop, obtain medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not combustible. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Reactivity : Reacts violently with acids.

5.3. Advice for firefighters

Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.
Emergency procedures : Ventilate area. Avoid dust formation. Do not breathe dust.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothing. Keep/Store away from Incompatible materials.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

MULTIFEX-MM® (471-34-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ Total dust 5 mg/m ³ respirable dust

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8.2. Exposure controls

Appropriate engineering controls	: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: In case of repeated or prolonged contact wear gloves.
Eye protection	: Wear safety glasses with side shields.
Skin and body protection	: Not required for normal conditions of use.
Respiratory protection	: In case of insufficient ventilation and possible dust formation, wear suitable respiratory equipment.
Thermal hazard protection	: Not required for normal conditions of use.
Environmental exposure controls	: Avoid release to the environment.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Dry powder.
Color	: White.
Odor	: odorless
Odor threshold	: No data available
pH	: 7 - 9 (20 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 450 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 2.71
Solubility	: Water: Partially soluble
Log Pow	: No data available
Log Kow	: Not relevant for inorganic substances
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: Not oxidizing.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with acids.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Can react violently with acids.

10.4. Conditions to avoid

Heat.

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10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

MULTIFEX-MM® (f)471-34-1	
LD50 oral rat	> 2000 mg/kg (OECD Guideline 420)
LD50 dermal rat	> 2000 mg/kg (OECD Guideline 402)
LC50 inhalation rat (mg/l)	> 3 mg/l/4h (OECD Guideline 403) for solid substance

Skin corrosion/irritation : Not classified

pH: 7 - 9 (20 °C)

Serious eye damage/irritation : Not classified

pH: 7 - 9 (20 °C)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

MULTIFEX-MM® (471-34-1)	
LC50 fish	> 100 mg/l Oncorhynchus mykiss-OECD 203
EC50 Daphnia	> 100 mg/l OECD 202
EC50 other aquatic organisms 2	> 1000 mg/l 3h - Activated sewage sludge - OECD 209
ErC50 (algae)	> 14 mg/l Desmodesmus subspicatus-OECD 201
NOEC (acute)	14 mg/l Desmodesmus subspicatus - OECD 201

12.2. Persistence and degradability

MULTIFEX-MM® (471-34-1)	
Persistence and degradability	Not relevant for inorganic substances.

12.3. Bioaccumulative potential

MULTIFEX-MM® (471-34-1)	
BCF fish 1	≈
Log Kow	Not relevant for inorganic substances
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

MULTIFEX-MM® (471-34-1)	
Ecology - soil	Not applicable.

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12.5. Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No known ecological damage caused by this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport
Other information : No supplementary information available.

Transport by sea

Proper Shipping Name (IMDG) : Not applicable

Air transport

Proper Shipping Name (IATA) : Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

MULTIFEX-MM® (471-34-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

MULTIFEX-MM® (471-34-1)

WHMIS Classification : Uncontrolled product according to WHMIS classification criteria

15.2.2. National regulations

MULTIFEX-MM® (471-34-1)

This product is covered by (FDA) US 21 CFR, Part 184. Sections 184.1 and 184.1191 affirm that calcium carbonate is "Generally Recognized As Safe (GRAS) for use as a direct and indirect human food ingredient. Affirmation of a substance as GRAS is further referenced in many of the FDA food additive regulations as a basis for various applications involving direct and indirect contact with food. PCC used in paper and paperboard complies with US 21 CFR 176.170 and 176.180 for direct contact with aqueous and fatty foods, and dry foods, respectively.

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 03/13/2015
Data sources : US OSHA HazCom (GHS) 25 May 2012. U.S. 29CFR Part 1910
ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
IARC Monographs on the Evaluation of the Carcinogenic Risks to Humans World Health Organization
EU Directive 91/322/EEC and 2000/39/EC
NTP 11th Report on Carcinogens.

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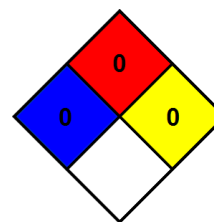
Abbreviations and acronyms : CAS (Chemical Abstracts Service) number. IARC (International Agency for Research on Cancer). LC50 (Lethal Concentration 50%). LD50 (Lethal Dose 50%). EC50 (Effective Concentration 50%). PBT (Persistent, bioaccumulative and toxic). vPvB (very persistent and very bioaccumulative). REACH (Registration, Evaluation and Authorisation of CHemicals). CLP (Classification, Labeling and Packaging). DNEL (Derived No effect Limit). OECD (Organisation for Economic Co-operation and Development). PNEC (predicted no effect concentration). UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods). ADR (Accord européen relatif au transport international des marchandises Dangereuses par Route). ATE (Acute Toxicity Estimate). EC (European Community). EN (European Norm). IATA (International Air Transport Association). IBC (Intermediate Bulk Container). IMDG (International Maritime Dangerous Goods Code). IMO (International Maritime Organisation). MAC (Maximal Allowed Concentration). O/W (Oil-in-Water (chemistry)). PMcc (Pensky-Martens Closed Cup test). RID (Règlement concernant le transport international ferroviaire de marchandises). STEL (Short Term Exposure Limit). TWA (Time Weighted Average). DMEL (Derived minimum effect level). BCF (Bioconcentration factor). ES (Exposure scenario). EPISUITE (Estimation Program Interface (EPI) Suite). EWC (European Waste Catalogue). IOELV (Indicative Occupational Exposure Limit). Koc (Soil adsorption coefficient). LLNA (The Mouse Local Lymph Node Assay). LOAEC (Lowest observed adverse effect concentration). NOAEC (No observed adverse effect concentration). NOAEL (No observed adverse effect level). OEL (Occupational exposure limit). Repr (Toxicity for reproduction). SCL (Specific Concentration Limit). SCOEL (Scientific Committee on Occupational Exposure Limits). STOT RE (Specific target organ toxicity (repeated exposure)). STOT SE (Specific target organ toxicity (single exposure)).

Other information : None.

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 0 Minimal Hazard - No significant risk to health
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard
Personal Protection : B

NCEC SDS US (GHS HazCom 2012) V14_1

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