

Diamond (200)

Safety Data Sheet

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

Revision Date: 01/10/17

Supersedes: 11/07/14

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Name and Code:

Diamond (200)

1.2. Intended Use of the Product

Use of the substance/mixture: Surface Hardener

1.3. Name, Address, and Telephone of the Responsible Party

Company

Kaufman Products, Inc.
3811 Curtis Avenue
Baltimore, MD 21226-1131
410-354-8600

<http://www.kaufmanproducts.net/>

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Acute Toxicity, oral 1	H304
Skin irritant, 2	H315
Serious eye damage, eye irritant, 2A	H319
Acute Toxicity, inhalation 4	H332
Acute Toxicity, Aquatic 1	H400

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

Hazard Statements

Danger

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H400 - Very toxic to aquatic life

Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P261 - Avoid breathing mist, spray, vapors

P262 - Do not get in eyes, on skin, or on clothing.

P270 - Do not eat, drink or smoke when using this product

Diamond (200)

Safety Data Sheet

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

P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 +P351+P358: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a POISON CENTER/doctor
P313 - Get medical advice/attention
P370+P378 - In case of fire: Use appropriate media for extinction
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P235 - Keep cool
P501 - Dispose of contents/container to local, regional, national, and international regulations

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

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture: Diamond

Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	75-85	Not classified
Magnesium Silicofluoride	(CAS No) 18972-56-0	15-25	Acute Toxicity, oral Cat. 1 H304 Skin irritant, 2, H315 Eye Irritation 2A,H319
Zinc Silicofluoride	(CAS No) 16871-71-9	<1%	Acute Toxicity, oral Cat. 1 H304 Skin irritant, 2, H315 Eye Irritation 2A,H319

Full text of H-phrases: see section 16

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 exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Diamond (200)

Safety Data Sheet

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

First-aid Measures After Ingestion: SEEK MEDICAL ATTENTION IMMEDIATELY. Give water to dilute. Do NOT induce vomiting unless directed by licensed medical personnel. Advise medical personnel of possible fluoride exposure.

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

Symptoms/Injuries: Remove exposed person to fresh air. Oxygen may be administered if breathing becomes difficult. Artificial respiration should be started immediately if the individual stops breathing.

Symptoms/Injuries After Inhalation: Remove to fresh air

Symptoms/Injuries After Skin Contact: May cause skin irritation or burns.

Symptoms/Injuries After Eye Contact: Flush eyes with water for at least 20 minutes while holding eyelids open. Seek medical attention.

Symptoms/Injuries After Ingestion: SEEK MEDICAL ATTENTION IMMEDIATELY.

Chronic Symptoms: Pre-existing skin, lung, central nervous system, and kidney conditions may be aggravated by exposure to the components of this product. Exposure to fluorides at concentrations above the TLV or PEL may cause a chronic bone fluorosis.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: The product is not combustible. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: All extinguishing media are allowed. Select appropriate extinguishing media depending on the surrounding fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Product is an aqueous solution which will not burn.

Explosion Hazard: Not established

Reactivity: Not reactive

5.3. Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Self contained breathing apparatus operating in the positive pressure mode and full fire fighting gear should be worn for combating fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Collect spillage. Clear up spills immediately and dispose of waste safely. Material collected during clean up may be contaminated and should be treated as hazardous unless specific testing, including TCLP, shows it to be non-hazardous. Releases may be reportable to local, state, and/or federal authorities.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

Diamond (200)

Safety Data Sheet

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

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Avoid contact with skin and eyes.

Precautions for Safe Handling: Use in a well-ventilated area. Avoid breathing vapours, mist, spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Store in cool, dry place.

Storage Conditions: Keep container closed when not in use.

Incompatible Products: Strong acids or alkaline materials.

Incompatible Materials: Heat sources.

Storage Area: Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific End Use(s): Surface Hardener

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

Magnesium Silicofluoride (CAS No) 18972-56-0		
USA ACGIH	(Fluorides(as F)): ACGIH TWA (mg(F)/m ³)	2.5 mg(F)/m ³
Zinc Silicofluoride (CAS No) 16871-71-9		
USA ACGIH	(Fluorides(as F)): ACGIH TWA (mg(F)/m ³)	2.5 mg(F)/m ³

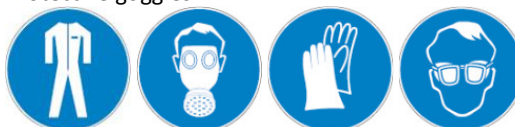
8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure all national/local regulations are observed.

Personal Protective Equipment

: Protective clothing. Insufficient ventilation: wear respiratory protection. Gloves. Protective goggles.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State

: Liquid

Appearance

: Water clear

Odor

: No data available

Odor Threshold

: No data available

pH

: 3.1 (1% Aqueous Solution)

Relative Evaporation Rate (butylacetate=1)

: No data available

Diamond (200)

Safety Data Sheet

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

Relative evaporation rate (ether=1)	: Slower than ether
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 100 °C (212 °F)
Flash Point	: Not flammable
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: Heavier than air
Relative Density	: 1.09
Solubility	: Water: Miscible
Log Pow	: No data available
Log Kow	: No data available
Viscosity	: No data available

9.2. Other Information

VOC content : 0 %

SECTION 10 : STABILITY AND REACTIVITY

- 10.1 Reactivity:** Stable under normal conditions
- 10.2 Chemical Stability:** Stable
- 10.3 Possibility of Hazardous Reactions:** Will not polymerize
- 10.4 Conditions to Avoid:** Do not store with or near strong acids or alkaline materials.
- 10.5 Incompatible Materials:** May react with strong mineral acids to liberate hydrogen fluoride or hydrofluoric acid which are highly toxic and corrosive.
- 10.6 Hazardous Decomposition Products:** Toxic and corrosive fluoride gases and ammonia, which is irritating.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Swallowing fluoride dust may be fatal

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg
Magnesium Silicofluoride (CAS No) 18972-56-0	
LD50 Oral Rat	> 125 mg/kg
Zinc Silicofluoride (CAS No) 16871-71-9	
LD50 Oral Rat	> 125 mg/kg

Skin Corrosion/Irritation: Irritating to skin

Serious Eye Damage/Irritation: Causes severe irritation.

Respiratory or Skin Sensitization: Highly irritating to mucous membranes and upper respiratory tract.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: No

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Diamond (200)

Safety Data Sheet

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

Aspiration Hazard: Not classified

Potential Adverse Human Health Effects and Symptoms: Irritating.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Direct contact with the eyes is likely severely irritating.

Symptoms/Injuries After Ingestion: Loss of appetite, nausea, vomiting, dyspnea, salivation, abdominal pain, fever, nettle rash, skin, tooth and kidney damage

Chronic Symptoms: . : Fluorosis, fragile bones, stiffness of the joints, osteosclerosis. Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Very toxic to aquatic life

Magnesium Silicofluoride (CAS No) 18972-56-0	
LC50 Fish 1	Not available
EC50 Daphnia 1	Not available
Zinc Silicofluoride (CAS No) 16871-71-9	
LC50 Fish 1	Not available
EC50 Daphnia 1	Not available

12.2. Persistence and Degradability

Diamond	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Diamond	
Bioaccumulative Potential	None

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information:

Ecology – Waste Materials: May be hazardous waste.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT :

Proper Shipping Name : TOXIC
Hazard Class : 6
Identification Number : UN2853
Label Codes : 6
Packing Group : III
ERG Number : 151



Diamond (200)

Safety Data Sheet

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

14.2 In Accordance with IMDG

Proper Shipping Name : TOXIC
Hazard Class : 6
Identification Number : UN2853

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Magnesium Silicofluoride (CAS No) 18972-56-0	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Zinc Silicofluoride (CAS No) 16871-71-9	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2 US State Regulations

California: This product does not contain any chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

SECTION 16: OTHER INFORMATION

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Flam. Liq. 2	Flammable liquids Category 2
Repr. 1A	Reproductive toxicity Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H232	May form combustible dust concentrations in air
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

LIMITED WARRANTY

01/10/2017

EN (English US)

7/8

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Diamond (200)

Safety Data Sheet

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

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