

DKD

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 11/20/2009 Revision date: 05/22/2015 Supersedes: 08/12/2014 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product name : DKD
Other means of identification : Dolomitic Kiln Dust

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

Dolomitic kiln dust is primarily used in structural stabilization projects, waste remediation and other applications.

1.3. Details of the supplier of the safety data sheet

Martin Marietta Magnesia Specialties
1800 Eastlake Road
Manistee, Michigan 49660 - USA
T +001 410 780 5500

1.4. Emergency telephone number

Emergency number : CHEMTREC, U.S.: 1-800-424-9300
INTERNATIONAL: +1-703-527-3887 Available 24/7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Dam. 1 H318
STOT SE 3 H335

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

GHS07

Signal word (GHS-US) : Danger.

Hazard statements (GHS-US) : H315 - Causes skin irritation
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust
P264 - Wash hands thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

Other hazards not contributing to the classification : Reacts with water, releasing heat which can ignite combustible products.

2.4. Unknown acute toxicity (GHS-US)

No data available

DKD

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (GHS-US)
Dolomitic limestone	(CAS No) 16389-88-1	20 - 60	Not classified
Dolomitic lime	(CAS No) 37247-91-9	20 - 60	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Inorganic compounds containing sulfur	(CAS No) mixture	8 - 12	Not classified
Oxides of silicon, iron and aluminum	(CAS No) mixture	4.5	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Brush off loose particles from skin. Gently wash with plenty of soap and water.
- 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.

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

- Symptoms/injuries after inhalation : Inhalation may cause: irritation, cough, shortness of breath.
- Symptoms/injuries after skin contact : Effects of skin contact may include: skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.
- Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : No particular fire or explosion hazard.
- Reactivity : Reacts with : strong acids. Water.

5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Avoid contact with skin and eyes. Where excessive dust may result, use approved respiratory protection equipment.
- Emergency procedures : Avoid all unnecessary exposure. Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Avoid contact with skin and eyes. Where excessive dust may result, use approved respiratory protection equipment.
- Emergency procedures : Avoid contact of substance with water. Collect as much as possible in a clean container for (preferable) reuse or disposal.

6.2. Environmental precautions

Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Large spills: scoop solid spill into closing containers. Minimize generation of dust.

6.4. Reference to other sections

Section 7: Safe handling.

Section 8: Personal protective equipment.

Section 13: Disposal information.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Additional hazards when processed : Keep away from any possible contact with water.

Precautions for safe handling : Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed and in a well-ventilated place. Protect from moisture. Incompatible materials.

Incompatible materials : Strong acids. Water.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Dolomitic limestone (16389-88-1)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ Total dust
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ Total dust 5 mg/m ³ respirable fraction

Dolomitic lime (37247-91-9)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ Total dust
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ Total dust 5 mg/m ³ respirable fraction

8.2. Exposure controls

Appropriate engineering controls : Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required. Protect from moisture.

Personal protective equipment : Gloves. In case of dust production: protective goggles.



Hand protection : PVC, neoprene/natural rubber.

Eye protection : In case of dust production: protective goggles.

Respiratory protection : Use air-purifying respirator equipped with particulate filtering cartridges.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Solid
Appearance	: Powder to granules.
Color	: Gray to white.
Odor	: Odorless.
Odor threshold	: No data available
pH	: Not applicable
pH solution	: 11 (Saturated solution)
Relative evaporation rate (butyl acetate=1)	: Not applicable
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable

DKD

Safety Data Sheet

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

Self ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Soluble in water.
Density	: 0.64 – 0.87 g/cc or 40 – 54 lbs/ft3
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: No oxidizing properties.
Explosive limits	: Not applicable

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with : Strong acids. Water.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Contact with incompatible materials. Moisture.

10.5. Incompatible materials

Water. Strong acids.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Dolomitic lime (37247-91-9)

LD50 oral rat	> 2000 mg/kg
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

Potential Adverse human health effects and symptoms : Irritation: may cause irritation to the respiratory system. May cause serious damage to eyes. Causes skin irritation.

Symptoms/injuries after inhalation : Inhalation may cause: irritation, cough, shortness of breath.

Symptoms/injuries after skin contact : Effects of skin contact may include: skin irritation.

DKD

Safety Data Sheet

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

Symptoms/injuries after eye contact : Causes serious eye damage.
Likely routes of exposure : Skin and eyes contact.;Inhalation.

SECTION 12: Ecological information

12.1. Toxicity

Dolomitic lime (37247-91-9)	
LC50 fish 1	457 mg/l Read across

12.2. Persistence and degradability

Dolomitic limestone (16389-88-1)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	No known biodegradation effects.

Dolomitic lime (37247-91-9)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Dolomitic limestone (16389-88-1)	
Bioaccumulative potential	This product is not bioaccumulating.

Dolomitic lime (37247-91-9)	
Bioaccumulative potential	This product is not bioaccumulating.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT

Not considered a dangerous good for transport regulations

Additional information

Other information : No supplementary information available.

ADR

No additional information available :

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Dolomitic limestone (16389-88-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

Dolomitic lime (37247-91-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

Dolomitic limestone (16389-88-1)		
Jurisdiction	List	Comment
Asia Pacific	Asia - PAC	

Dolomitic limestone (16389-88-1)		
Australia	Australian Inventory of Chemical Substances (AICS)	Listed
	National Pollutant Inventory	
	Priority Existing Chemicals	
China	Inventory of Existing Chemical Substances (IECSC)	Listed
Japan	Existing and New Chemical Substances (ENCS)	# 1-465; inorganic compounds
Korea	KECI (Chemical Inventory of Korea)	KE-13036
New Zealand	Inventory of Chemicals (NZIoC)	Listed
Phillippines	Inventory of Chemicals and Chemical Substances (PICCS)	Listed
Europe	EEC International Cosmetics Ingredients Inventory (INCI)	
	EU REACH pre-registered	
	EU Inventory of Existing Commercial Chemical Substances (EINECS)	240-440-2
	German Water Hazard Class Substance List	
	Switzerland Giftliste 1 (List of Toxic Substances)	G-8431
Canada	Canadian Domesticated Substances List (NDSL)	Listed
	WHMIS Ingredient List	
United States	ACGIH Threshold Limit Values (TLV)	10 mg/m ³ 8 hour TWA: total particulates
	EPA Pesticide Inert Ingredients	Inerts 4A - minimal Risk Inert Ingredients
	FDA Priority-based Assessment of Food Additives (PAFA)	
	FDA Regulations	
	High Production Volume Chemicals (HPV)	
	National Toxicology Program Technical Reports List	
	NIOSH Hazard, Toxicology, and Use Information	
	NIOSH Health Hazards	
	NIOSH Recommended Exposure Limits	
	OSHA Permissible Exposure Limits	8 hour TWA: total particulates 15 mg/ m ³
	Toxic Substances Control Act (TSCA) Inventory	Listed
	Toxic Inventory Update Rule	
	TSCA Section 8A-Preliminary Assessment Information Rule (PAIR)	
Other	Health Hazards	
	High Production Volume Chemicals: ICCA	
	High Production Volume Chemicals: OECD	Listed

Dolomitic lime (37247-91-9)		
Jurisdiction	List	Comment
Asia Pacific	Asia - PAC	
Australia	Australian Inventory of Chemical Substances (AICS)	Listed
	National Pollutant Inventory	
	Priority Existing Chemicals	
China	Inventory of Existing Chemical Substances (IECSC)	
Japan	Existing and New Chemical Substances (ENCS)	# 1-465; inorganic compounds
Korea	KECI (Chemical Inventory of Korea)	KE-04576
New Zealand	Inventory of Chemicals (NZIoC)	Listed
Phillippines	Inventory of Chemicals and Chemical Substances (PICCS)	
Europe	EEC International Cosmetics Ingredients Inventory (INCI)	
	EU REACH pre-registered	Yes
	EU Inventory of Existing Commercial Chemical Substances (EINECS)	253-425-0
	German Water Hazard Class Substance List	
	Switzerland Giftliste 1 (List of Toxic Substances)	
Canada	Canadian Domesticated Substances List (NDSL)	Listed

Dolomitic lime (37247-91-9)		
	WHMIS Ingredient List	
United States	ACGIH Threshhold Limit Values (TLV)	10 mg/m ³ 8 hour TWA: total particulates
	EPA Pesticide Inert Ingredients	Inerts 4A - minimal Risk Inert Ingredients
	FDA Priority-based Assessment of Food Additives (PAFA)	
	FDA Regulations	
	High Production Volume Chemicals (HPV)	
	National Toxicology Program Technical Reports List	
	NIOSH Hazard, Toxicology, and Use Information	
	NIOSH Health Hazards	
	NIOSH Recommended Exposure Limits	
	OSHA Permissible Exposure Limits	8 hour TWA: total particulates 15 mg/ m ³
	Toxic Substances Control Act (TSCA) Inventory	Listed
	Toxic Inventory Update Rule	
	TSCA Section 8A-Preliminary Assessment Information Rule (PAIR)	
Other	Health Hazards	
	High Production Volume Chemicals: ICCA	
	High Production Volume Chemicals: OECD	Listed

15.3. US State regulations

Dolomitic limestone(16389-88-1)

State or local regulations	U.S. - New Jersey - Right to Know Hazardous Substance List
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SECTION 16: Other information

Indication of changes : Revision : NFPA-code.

Revision date : 05/22/2015

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>
 Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.
 National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition.
 OSHA 29CFR 1910.1200 Hazard Communication Standard.
 The Organisation for Economic Co-operation and Development (OECD; eChemPortal chemical searches. Accessed at <http://www.echemportal.org/echemportal/substancesearch/substancesearchlink.action>.
 TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>

Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists).
 CAS (Chemical Abstracts Service) number.
 GHS: Globally Harmonized System (of Classification and Labeling) of Chemicals .
 OSHA: Occupational Safety & Health Administration.
 TWA: Time Weighted Average.

Full text of H-phrases:

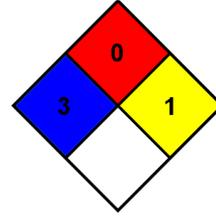
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

DKD

Safety Data Sheet

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

- NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
- NFPA fire hazard : 0 - Materials that will not burn.
- NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



SDS US (GHS HazCom 2012)

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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.