Safety Data Sheet

Date of issue: 04/18/2014 Revision date: 03/30/2021 Version: 1.2

SECTION 1: Identification of the substan	ce/mixture and of the company/	undertaking	
1.1. Product identifier			
	ubstance		
Trade name : M	agShield S NB-10		
Ν	agShield UF NB-10		
N	agShield UF NB-10 CL		
Chemical name : M	agnesium hydroxide		
	309-42-8		
Formula : M	g(OH)2		
1.2. Relevant identified uses of the substance	•		
n tł	agShield magnesium hydroxide is employe olded parts for the transportation industry, e construction industry, polymer processing ofing.	plastic compoun	ds for electrical applications and
1.3. Details of the supplier of the safety data	sheet		
Martin Marietta Magnesia Specialties 1800 Eastlake Road			
Manistee, Michigan 49660, USA			
Tel: +001 410 780 5500			
1.4. Emergency telephone number			
Emergency number : Cl	HEMTREC, U.S.: 1-800-424-9300 INTERN	ATIONAL: +1-70	3-527-3887 Available 24/7
	CHEMTREC New Zealand (Auckland)*	+(64)-98100	34 English
SECTION 2: Hazards identification			
2.1. Classification of the substance or mixtur			
GHS classification			
Not classified			
HSNO classification			
Not classified			
2.2. Label elements			
GHS labelling			
No labelling applicable			
2.3. Other hazards			
Other hazards not contributing to the : N classification	o additional hazards have been identified.		
2.4. Unknown acute toxicity (GHS)			
Not applicable			
SECTION 3: Composition/information or	ingredients		
3.1. Substance			
Substance type : M	ono-constituent		
Name : Co	pated MagShield Magnesium Hydroxide		
CAS No : 13	09-42-8		
Name	Product identifier	%	GHS classification
Magnesium hydroxide	(CAS No) 1309-42-8	98	Not classified
Magnesium stearate	(CAS No) 557-04-0	<= 2.5	Not classified
Oxides of silicon, iron, aluminum, and calcium	(CAS No) mixture	1	Not classified
3.2. Mixture			
Not applicable			

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according to HSNO	
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 breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Obtain emergency 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. Do not breathe dust.
Symptoms/injuries after inhalation :	Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries after skin contact :	Effects of skin contact may include: skin irritation.
Symptoms/injuries after eye contact :	May cause eye irritation.
4.3. Indication of any immediate medical a	tention and special treatment needed
No additional medical information found. If you feel	•
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	Not combustible. If there is a fire nearby, use suitable extinguishing agents. Water fog. Carbon
5 5	dioxide. Dry powder. Foam.
Unsuitable extinguishing media :	None known.
5.2. Special hazards arising from the subs	tance or mixture
•	If magnesium hydroxide is heated to the point of decompostion (>350 °C), it forms magnesium
	oxide and water. If magnesium oxide is heated to the point of volatilization (i.e., >1700 °C), magnesium oxide fumes may be generated.
Explosion hazard :	Product is not explosive.
Reactivity :	Reacts with : Incompatible materials.
5.3. Advice for firefighters	
	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
	No additional risk management measures required.
SECTION 6: Accidental release measu	
6.1. Personal precautions, protective equi General measures	Avoid creating or spreading dust.
6.1.1. For non-emergency personnel	
U U	Where excessive dust may result, use approved respiratory protection equipment.
	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
	Where excessive dust may result, use approved respiratory protection equipment.
Emergency procedures :	Ventilate area. If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	and cleaning up
For containment :	Do not allow minor leaks or spills to accumulate on walking surfaces. Contain and collect as
Mathematican second	any solid.
Methods for cleaning up :	On land, sweep or shovel into suitable containers. Minimize generation of dust.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of dust.
Hygiene measures	: Smoking, eating and drinking should be prohibited in areas of storage and use. Always wash your hands immediately after handling this product, and once again before leaving the workplace.
7.2. Conditions for safe storage, inc	luding 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.
Incompatible products	: ACID (Strong) - vigorous reaction, heat generated; MALEIC ANHYDRIDE – Alkali and other alkaline earth compounds including magnesium compounds, will cause explosive decomposition of maleic anhydride; PHOSPHORUS – Phosphorus boiled with alkaline hydroxides yields mixed phosphines which may ignite spontaneously with air.

Specific end use(s) 7.3.

No additional information available

SECTION 8: Expos	sure controls/personal protection		
3.1. Control para	neters		
Magnesium hydroxid	e (1309-42-8)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m ³ as Particulates (insoluble or poorly soluble) not otherwise specified 3 mg/m ³ (respirable fraction / fraction respirable)	
OSHA	OSHA PEL (TWA) (mg/m ³)	10 mg/m ³ (total dust) as inert or nuisance dust not otherwise regulated; 5 mg/m ³ (respirable fraction) as inert or nuisance dust not otherwise regulated	
Magnesium stearate	557-04-0)		
ACGIH	Not applicable		
OSHA	Not applicable	Not applicable	
Oxides of silicon, iro	n, aluminum, and calcium (mixture)		
ACGIH	Not applicable		
OSHA	Not applicable		
Inorganic silicates ar	d carbonates (mixture)		
ACGIH	Not applicable		
OSHA	Not applicable		
Inorganic chloride sa	Its (mixture)		
ACGIH	Not applicable		
OSHA	Not applicable		
3.2. Exposure co	ntrols		
Appropriate engineering		dust in the air (ie, clearing dust surfaces with compressed air). Provide local of closed transfer systems to minimize exposures.	
Hand protection			
Eye protection		: Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. Where excessive dust may result, wear goggles.	
Other information	: Do not eat, drink or	r smoke during use.	
SECTION 9: Physi	cal and chemical properties		
	n basic physical and chemical properties		
Physical state	: Solid		
Appearance	: Powder.	: Powder.	

Colour

Odour

: White

: Odorless

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iccording to HSNO	
Odour threshold	: No data available
рН	: No data available
pH solution	: ≥10
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 350 °C decomposes
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: Does not self-ignite
Decomposition temperature	: > 350 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2.36 g/cm ³
Solubility	: Water: 6.9 mg/l
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No oxidizing properties.
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	ty in the second se
10.1. Reactivity	
Reacts with : Incompatible materials.	
10.2. Chemical stability	
No additional information available	
10.3. Possibility of hazardous reactions	5
Hazardous polymerization will not occur.	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
	ated; MALEIC ANHYDRIDE – Alkali and other alkaline earth compounds including magnesium on of maleic anhydride; PHOSPHORUS – Phosphorus boiled with alkaline hydroxides yields mixed <i>i</i> th air.
10.6. Hazardous decomposition produc	ts

No additional information available

SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Magnesium hydroxide (1309-42-8)	
LD50 oral rat	> 2000 mg/kg OECD Guideline 423
LC50 inhalation rat (mg/l)	> 2.1 ml/m ³ OECD Guideline 403. No mortality seen at this level.
Magnesium stearate (557-04-0)	
LD50 oral rat	> 1000 mg/kg

Skin corrosion/irritation

: Not classified (Based on available data, the classification criteria are not met)

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Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
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)
Likely routes of exposure	: Skin and eyes contact, inhalation
Symptoms/injuries after inhalation	: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries after skin contact	: Effects of skin contact may include: skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.

SECTION 12: Ecological informatio	n
12.1. Toxicity	
Magnesium hydroxide (1309-42-8)	
LC50 fishes 1	1293 mg/l Onchorinchus mykiss
EC50 Daphnia 1	284.76 mg/l
LC50 fish 2	511.31 mg/l P. promelas
ErC50 (algae)	> 100 mg/l
12.2. Persistence and degradability	
Coated MagShield Magnesium Hydroxide ((1309-42-8)
Persistence and degradability	Not established.
Magnesium hydroxide (1309-42-8)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	Does not degrade although it does dissolve.
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	: None known
Effect on the global warming	: None known
Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
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

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SECTION 15: Regulatory inform	mation
15.1. National regulations	
Magnesium Hydroxide (1309-42-8)	
Listed on the Australian Inventory of Ch Listed on the New Zealand Inventory of	
SECTION 16: Other information	n .
Revision date	: 03/30/2021
Data sources Abbreviations and acronyms	 ACGIH 210 European Chemicals Agency (ECHA) Registered Substances list. Accessed at <a chemical="" clothing",="" edition.<="" fifth="" guide="" href="http://apps.echa.europa.eu/registered/data/dossiers/DISS-9ea79197-1fe4-5688-e044-00144f67d031/AGGR-0e1e1da7-ccae-4cb9-a7d9-45a4191708ed_DISS-9ea79197-1fe4-5688-e044-00144f67d031.html#GEN_RESULTS_HD Krister Forsberg and S.Z. Mansdorf, " li="" protective="" quick="" selection="" to=""> Merck Index, 11th edition National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. ACGIH (American Conference of Government Industrial Hygienists). ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number. EC50: Environmental Concentration associated with a response by 50% of the test population. GHS: Globally Harmonized System (of Classification and Labeling) of Chemicals . LD50: Lethal Dose for 50% of the test population. OSHA: Occupational Safety & Health Administration. TSCA: Toxic Substances Control Act. TWA: Time Weighted Average.
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 not reactive with water.
SDS Prepared by: The Redstone Group 6397 Emerald Pkwy. Suite 200 Divitie Oth 12040	

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

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