

Safety Data Sheet

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

Date of issue: 03/02/2016

SECTION 1: Identification

1.1. Identification

Product form : Substance
Substance name : 3900 Aggregate
Product code : 3900 Aggregate

Synonyms : MILLISIL M10 / MILLISIL M4 / MILLISIL M6 / MILLISIL M8 / MILLISIL NW6 / MILLISIL NW8 /

quartz (SiO2) / quartz flour, conc respirable crystalline silica>=10% / SIKRON M300 / SIKRON

M400 / SIKRON M500 / SIKRON M600

Other means of identification : 3900 Aggregate/50 R

BIG no : 51142

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

Use of the substance/mixture : industrial use: component

Paint: component Adhesive: component

Chemical substance for research

1.3. Details of the supplier of the safety data sheet

Protective Industrial Polymers 7875 Bliss Parkway

North Ridgeville, Ohio 44039 - USA-Ohio

T 440-327-0015 www.protectpoly.com

1.4. Emergency telephone number

Emergency number : Chemtrec: 800-427-9300 (Outside USA) 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Carcinogenicity H350

Category 1A

Specific target organ H372

toxicity (repeated

exposure) Category 1

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H350 - May cause cancer (Inhalation)

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

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

P260 - Do not breathe dust

P264 - Wash hands, forearms and face thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves

P308+P313 - If exposed or concerned: Get medical advice/attention

P314 - Get medical advice/attention if you feel unwell

P405 - Store locked up

P501 - Dispose of contents/container to in accordance with local regulations

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Name : 3900 Aggregate

Name	Product identifier	%	GHS-US classification
Silicon Dioxide	(CAS No) 14808-60-7	60 - 70	Carc. 1A, H350
Ferrosilicon	(CAS No) 8049-17-0	30 - 40	Not classified

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after skin contact

: Not applicable.

First-aid measures after eye contact

Rinse with water. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion

Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a

doctor/medical service if you feel unwell.

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

Symptoms/injuries after inhalation

: Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. ON

CONTINUOUS EXPOSURE/CONTACT: Respiratory difficulties.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact

Slight irritation.

: Dry skin.

Symptoms/injuries after ingestion

: No data available.

Chronic symptoms

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Lung tissue affection/degeneration.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment. Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD. Non combustible.

Explosion hazard : DIRECT EXPLOSION HAZARD. No direct explosion hazard.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : No specific fire-fighting instructions required.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See

"Material-Handling" to select protective clothing.

Emergency procedures : Mark the danger area. Prevent dust cloud formation, e.g. by wetting. Wash contaminated

clothes.

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and

windows.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to

select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud

with water spray.

Methods for cleaning up : Stop dust cloud by humidifying. Scoop solid spill into closing containers. Wash clothing and

equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Avoid raising dust. Observe very strict hygiene - avoid

contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke

when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

Heat-ignition : No data available.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases.

Storage area : Store in a dry area. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing, correctly labelled, meet the legal requirements. Secure

fragile packagings in solid containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

3900 Aggregate		
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
OSHA	Remark (OSHA)	(3) See Table Z-3.
Silicon Dioxide (14	4808-60-7)	
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
OSHA	Remark (OSHA)	(3) See Table Z-3.
Ferrosilicon (8049	-17-0)	
Not applicable		

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Materials for protective clothing : GIVE GOOD RESISTANCE: butyl rubber. PVC.

Hand protection : Gloves.

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

Skin and body protection : Protective clothing.

Respiratory protection : Dust production: dust mask with filter type P3. High dust production: self-contained breathing

apparatus.

Environmental exposure controls : Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder.

Color : Gray White to grey

Odor : Odourless

Odor threshold : No data available

рΗ : 6-7 1610 °C Melting point Freezing point Not applicable Boiling point : 2230 °C Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available **Explosion limits** Not applicable

Explosive properties : No data available
Oxidizing properties : No data available
Vapor pressure : < 0.1 hPa (20 °C)

Relative density : 2.6

Relative vapor density at 20 °C : No data available Specific gravity / density : 2650 kg/m³ Molecular mass : 60.08 g/mol

Solubility : Insoluble in water. Substance sinks in water. Insoluble in organic solvents. Soluble in

hydrogenfluoride. Water: insoluble

Log Pow : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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Skin corrosion/irritation : Not classified

pH: 6 - 7

Serious eye damage/irritation : Not classified

pH: 6 - 7

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (Inhalation).

3900 Aggregate

IARC group 1 - Carcinogenic to humans

Silicon Dioxide (14808-60-7)

IARC group 1 - Carcinogenic to humans

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Slight irritation. EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat. Coughing. ON

CONTINUOUS EXPOSURE/CONTACT: Respiratory difficulties.

Symptoms/injuries after skin contact : Dry skin.

Symptoms/injuries after eye contact : Slight irritation.

Symptoms/injuries after ingestion : No data available.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Lung tissue affection/degeneration.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Classification concerning the environment: not applicable.

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft

Klasse 5.2.1.

Ecology - water : No water pollutant (surface water).

12.2. Persistence and degradability

3900 Aggregate		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

Silicon Dioxide (14808-60-7)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I).

Additional information : LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive

2008/98/EC.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

TDG Proper Shipping Name : Not Regulated

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

3900 Aggregate

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

Silicon Dioxide (14808-60-7)

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

Ferrosilicon (8049-17-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

3900 Aggregate

Listed on IARC (International Agency for Research on Cancer)

Silicon Dioxide (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

3900 Aggregate

State or local regulations

U.S. - New Jersey - Right to Know Hazardous Substance List

Silicon Dioxide (14808-60-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

Ferrosilicon (8049-17-0)

U.S. - New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information

Other information

: Disclaimer: This SDS to the best of our knowledge conforms to the requirements of OSHA 20 CFR 1910.1200 and summarizes the health and safety hazard information and general guidance on how to safely handle the material at the date of issue. Each user must review the SDS in the context of how the product will be handled and used in the workplace.

Full text of H-phrases

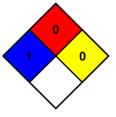
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

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 : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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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