

SAFETY DATA SHEET


WEATHER BARRIER



SECTION 1: Identification Of The Substance And Supplier

Product Name:	Weather Barrier
Other Name:	
Recommended Use:	Product is predominantly used in road making
Company Details:	Road Science
Address:	9 Owens Place, Mt Maunganui
Telephone Number:	07 575 1150
Emergency Telephone Number:	07 575 1150 24hr / 7 days or National Poisons Centre 0800 POISON (0800 764 766)
Specified Jurisdiction:	European Union
Relevant Law:	Regulation (EU) 2015/830

SECTION 2: Hazards Identification

Hazard Statement:	Causes Mild Skin Irritation Causes Mild Skin Drying May Cause Eye Irritation May Cause Respiratory Tract Irritation	
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SECTION 3: Composition/Information On Ingredients

Chemical Name	Index No.	CAS No.	EC No.	Conc. (%w/w)	Classification
Colloidal Silicon dioxide solution		7631-86-9 7732-18-5		0-30%	

SECTION 4: First Aid Measures

General Advice : Consult Physician, show this SDS to the physician.

If Inhaled : Move person to fresh air. If not breathing, give artificial respiration.

In case of eye contact : Flush eyes with water as precaution. Consult physician if irritation develops.

In case of skin contact : Wash affected area with soap and water. Remove contaminated clothing.

If Swallowed : Never give anything by mouth to an unconscious person. Do not induce vomiting, consult a physician.

Most important symptoms and effects, both acute and delayed. The most likely symptoms of exposure: Mild irritation of the affected area

Acute and delayed symptoms: No information available.

Recommendations for immediate medical care or special treatment; When necessary treat symptomatically.

SECTION 5: Fire-Fighting Measures

Extinguishing Media : Use extinguishing media appropriate for local circumstances and surrounding environment. The product is non-combustible.

Specific hazard from the chemical exposed to fire: No Hazards to be specifically mentioned.

Hazardous Decomposition: No Hazardous combustion products are known.

Special protective equipment or Precautions for Firefighters : Use standard procedure for chemical fires.

SECTION 6: Accidental Release Measures

Personal precautions and protective equipment:

- Wear the appropriate protective gear for the specific situation

- For further information, see section 8: Personal Protection Information

Emergency Procedures

- In case of release: Stop release if able to do so safely

- Evacuate the surrounding area if deemed appropriate.

- Contain the release if possible and in a safe manner

- Spills may be reportable to national, state, or local agencies

- Obey all relevant local, state, and federal laws and regulations.

- Do not contaminate any streams, lakes, ponds, groundwater or soil

Containment methods and materials

- Contain spills by all methods appropriate, such as damming, capping drains.

Clean-up procedures

- Clean-up methods should be appropriate for a water based material

- Vacuuming, pumping, and specialized equipment can be used

- Absorbing the product into inert material can be used

- Contain the material in appropriate containers

- Obey all relevant local, state, and federal laws and regulations

SECTION 7: Handling and Storage

Precautions for safe handling and storage

- Provide adequate ventilation, Local ventilation is indicated with airborne mists.
- Handle in accordance with good industrial hygiene and safety practices.
- Eating, drinking and smoking should be prohibited in areas where this is used
- Chemicals that are incompatible with a water based product should keep away
- In cold weather, this product may freeze, irreversibly damaging the product
- Mix thoroughly before use to assure homogeneity
- Do not release this material into the environment

SECTION 8: Exposure Control/Personal Protection

Substance & CAS #	OSHA PEL		Cal OSHA 8-hour TWA as of 7/7/16	NIOSH REL up to 10-hour TWA as of 7/7/16	ACGIH 2016 2016 TLV 8-hour TWA
	mppcf	mg/m ³	mg/m ³	mg/m ³	mg/m ³
Amorphous Silica CAS# 7631-86-9	20	80 mg/m ³	6 (Total) 3 (respirable)	6	10 (Inhalable) 3 (Respirable)

- Acronyms'

- ACGIH American Conference of Governmental Industrial Hygienists NIOSH National Institute for Occupational Safety and Health
- OSHA Occupational Safety and Health Administration
- Cal OSHA California Occupational Safety and Health Administration TWA Time Weighted Average
- mppcf million particles per cubic foot mg/m³ milligrams per cubic meter
- CAS# Chemical Abstracts Service Number

Engineering Controls

- : Use General Industrial Hygiene Practice
- : Use Local Exhaust Ventilation to prevent build-up of vapours and mists

Exposure Controls: Personal Protection

- : Eye and Face: Approved Safety glasses and chemical splash goggles
- : Skin Protection: Handle with impervious gloves, nitrile rubber is recommended
- : Respiratory Protection: Respiratory protection is not normally required, in cases where the material is converted to mists, vapours or dusts, approved respiratory protection should be used. Use respirators and components that are approved under appropriate governmental standards.
- : Body Protection: Impervious clothing.
- : Personal Hygiene; Wash hands and any exposed area's after handling this product, before eating, drinking, using the toilet, or other activities

SECTION 9: Physical and Chemical Properties

Physical Appearance:	Slightly opaque, translucent liquid
Physical Form:	Pourable watery like liquid
Upper/Lower Flammability Limits	Not Applicable, Non-Combustible
Explosive limits	Not Applicable, Non-Combustible
Odour	Light Characteristic Smell
Vapour Pressure	Same as for water
Odour threshold	No data available
Vapour density	Same as for water
pH	2.0 - 3.0
Relative Density	1.20 g/ml (25 ^o C)
Melting/Freezing point	0 ^o C, 32 ^o F
Solubility	Water miscible, no data for other solvents
Boiling point	100 ^o C, 212 ^o F; same as for water
Flash point	Will not flash
Evaporation rate	No data available
Flammability	No data available
Partition Coefficient: n-octanol/water	No data available
Auto-ignition temperature	Not Applicable, Non-Combustible
Decomposition temperature	Material does not decompose
Viscosity	< 20 mPa.s
Index of refraction	No data available
Typical dry solids content	31%
Oxidizing properties	Not and oxidizer

SECTION 10: Stability and Reactivity

Reactivity : Stable under normal conditions

Chemical Stability : Stable under recommended storage conditions

Possibility of hazardous reaction : No dangerous reaction known under normal conditions of use

Conditions to avoid :

Temperatures outside recommended storage conditions. Do not mix with other materials unless advised by supplier. Avoid drying of the material as this could lead to creation of solids or build up of dusts.

Incompatible materials :

Cationic materials. Reactive metals such as aluminium and copper. Any materials that would react with the water or silica components.

Hazardous decomposition products : No hazardous decomposition products are known.

Thermal decomposition : No hazardous thermal decomposition products are known.

SECTION 11: Toxicological Information

Acute Toxicity : Not classified based on available information

Skin Corrosion : Not classified based on available information

Serious eye damage : Not classified based on available information

Respiratory sensitisation : Not classified based on available information

Skin sensitisation : Not classified based on available information

Germ cell mutagenicity : Not classified based on available information

Carcinogenicity : No component of this product greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen by OSHA, NTP, or IARC.

Reproductive toxicity : Not classified based on available information

Specific target organ Toxicity-single exposure : No data available

Specific target organ Toxicity-repeated exposure : No data available

Aspiration hazard : No data available

Additional information : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecotoxicity Information

Ecological Studies : No ecological studies are available. The product is not expected to be a serious ecological hazard.

Potential to persist or degrade : The product is not expected to bio-degrade : The product is expected to have low or zero BOD

Toxicity : No data available

Bioaccumulation : No data available

Mobility in soil : No data available

PBT and vPvB assessment : No data available

Other adverse effects : No data available

General Notes : Avoid transfer to the environment

SECTION 13: Disposal Considerations

Product : Offer surplus and non-recyclable solutions to a licensed disposal company

Packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal

Product & Packaging : Consult federal, state, or local regulation to insure continued proper disposal.

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SECTION 14: Transport Information

UN Number : Not classed as dangerous goods

UN Proper Shipping Name : Not classed as dangerous goods

Transport Hazard Class : Not classed as dangerous goods

Packing Group Number : Not classed as dangerous goods

DOT (US) : Not classed as dangerous goods

IMDG : Not classed as dangerous goods

IATA : Not classed as dangerous goods

Environmental Hazards : Not expected to be a serious

Environmental Hazard

Marine Pollutant (IMDG) : Not a marine pollutant

Special Precautions : Avoid transfer to the Environment

SECTION 15: Transport Information

Chemical Safety Assessment : A Chemical Safety Assessment has not been carried out.

State Right to Know

California Prop. 65 : This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm

New Jersey RTKC : Silicon Dioxide; CAS-No. 7631-86-9

Pennsylvania RTKC : Silicon Dioxide; CAS-No. 7631-86-9

Massachusetts RTKC : Silicon Dioxide; CAS-No. 7631-86-9

US TSCA : Yes : Listed

Canadian DSL : 7631-86-9 is listed, 1344-09-8 is not listed:

SARA 302 : No ingredients in this product are subject to reporting for SARA title III, section 302

SARA 311/312 : No ingredients in this product are subject to reporting for SARA title III, section 311/312

SARA 313 : No information

SECTION 16: OTHER INFORMATION

Reference: OSHA, 29 CFR 1910.1200(g) and Appendix D. United

Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Third revised edition, United Nations, 2009. These references and other info can be found at <http://www.osha.gov/dsg/hazcom/index.html>