



AR-Powder

SECTION 1. IDENTIFICATION

Product Identifier AR-Powder

Other Means of

Peroxide Catalyzed Silica Blend

Identification

Product Family Silicon dioxide, with peroxide catalyst

Recommended Use Mixed with another component to form a corrosion-resistant mortar.

Restrictions on Use None known.

Manufacturer/Supplier The Stebbins Engineering and Manufacturing Company, 363 Eastern Boulevard, Watertown,

Identifier NY, 13601, (315) 782-3000, www.stebbinseng.com

Emergency Phone No. Chemtrec - Within North America, 1-800-424-9300, 24 hours

Stebbins 24 Hour Contact-, 1-315-788-6624

SDS No. 004

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 3; Eye irritation - Category 2A; Carcinogenicity - Category 1; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 1

Label Elements





Signal Word: Danger

Hazard Statement(s):

H316 Causes mild skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H350 May cause cancer if inhaled.

H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statement(s):

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

P260 Do not breathe dust.

P264 Wash hands thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Silica, quartz	14808-60-7	90 - 95 %	SiO2	Silicon dioxide
Titanium dioxide	13463-67-7	5 - 10%	TiO2	Pigment, white
Benzoyl peroxide	94-36-0	0.1 - 1 %	C14H10O4	Organic peroxide

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Clean clothing, shoes and leather goods. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can cause lung injury.

Immediate Medical Attention and Special Treatment

Target Organs

Lungs.

Medical Conditions Aggravated by Exposure

Respiratory conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

Can ignite if strongly heated.

In a fire, the following hazardous materials may be generated: irritating chemicals; toxic chemicals.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours. Approach fire from upwind to avoid hazardous vapours or gases.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Avoid dry sweeping. If necessary, use a dust suppressant such as water. Do not use compressed air for clean-up. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe in this product. Do not get in eyes, on skin or on clothing.

Conditions for Safe Storage

Store in an area that is: cool, dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The control parameters fro silica are as follows:

OSHA: the action level for respirable silica is 25 µg/m3 (8 hour TWA). Below this level, no special action need be taken.

Above it, 1926.1153 applies in full. OSHA PEL: 50 µg/m3 (8 hour TWA).

ACGIH TLV: TWA: 0.025 mg/m³ respirable mass

NIOSH PEL: TWA: 80 mg/m3 / (%SiO2) (amorphous)[2]

NIOSH REL: TWA: 6 mg/m3 (amorphous)[2]

CAL REL: TWA: 0.05 mg/m3

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

NIOSH = National Institute for Occupational Safety and Health. REL = Recommended Exposure Limit.

Appropriate Engineering Controls

Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear approved safety glasses.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance White powder. Particle Size: Fine

Odour Odourless
Odour Threshold Not available

pH 6 - 8

Melting Point/Freezing Point 2930 °F (1610 °C) (Silica, quartz) (melting)

Boiling point/Initial boiling point 4046 °F (2230 °C) **Boiling Range** Not available

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Flash Point

Evaporation Rate

Flammability (solid, gas)

Not applicable

Not applicable

Upper/Lower Flammability or

Explosive Limit

Not applicable (upper); Not applicable (lower)

Vapour Pressure

Vapour Density (air = 1)

Relative Density (water = 1)

Solubility

Not applicable

~ 2.65 at 25 °C

Insoluble in water

Not available

Partition Coefficient, n-Octanol/Water (Log Kow)

Auto-ignition Temperature Not applicable

Decomposition Temperature Not applicable

Viscosity Not applicable (kinematic); Not applicable (dynamic)

Other Information

Physical State Solid

Bulk Density 165.43 lb/ft3 (2649.94 kg/m3)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; eye contact.

Acute Toxicity

LD50 (Oral)

LD50 = 22,500 mg/kg rat

Skin Corrosion/Irritation

Human experience shows very mild irritation.

Serious Eye Damage/Irritation

Human experience shows mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Causes nose and throat irritation.

Ingestion

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

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Causes lung injury.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Carcinogenicity

Has been associated with: lung cancer. IARC: Group 1 – Carcinogenic to humans. ACGIH®: A2 – Suspected human carcinogen. NTP: Known human carcinogen. (Silica, quartz)

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

Not hazardous to the environment.

Ecotoxicity

(Silica, quartz) is not known to be ecotoxic. aquatic environment. LC50 carp > 10,000 mg/L 72 hours.

Persistence and Degradability

(Silica, quartz) is not degradable.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

Mobility in Soil

If released into the environment, this product does not move through the soil.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT		Non-Regulated		
IMO (Marine)		Non-Regulated		
IATA (Air)		Non-Regulated		
Canadian TDG		Non-Regulated		

Special Precautions Not applicable

Transport in Bulk according to International Maritime Organization Instruments

Not applicable

SECTION 15. REGULATORY INFORMATION

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Safety, Health and Environmental Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. (Benzoyl peroxide)

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 2 Flammability - 0 Instability - 0

Based on Silica, quartz

SDS Prepared By B.E.R.

Phone No. (315) 782-3000

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Revision Indicators Revision 8 reviewed and approved

Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists

HSDB® = Hazardous Substances Data Bank

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Association NIOSH = National Institute for Occupational

Safety and Health

NTP = National Toxicology Program

OSHA = US Occupational Safety and Health Administration RTECS® = Registry of Toxic Effects of Chemical Substances

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational

Health and Safety (CCOHS).

Disclaimer NOTE: The information contained herein is, to the best of our knowledge, accurate and

reliable. However, no warranty is expressed or implied regarding the accuracy of this

information, or the results to be obtained from the use thereof.

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