

Dura Hard Colloidal Silica

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Mixture
Trade Name	Dura Hard Colloidal Silica
CAS Number	Mixture

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

Identified Use(s)	Industrial Applications
Uses Advised Against	None

Details of the supplier of the safety data sheet

Company Identification	West Coast Chemical CORPORATE OFFICE 6083 N Figarden Drive #317 Fresno, CA 93722
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Telephone	(559)-275-2293; M-F 8:00 AM-5:30 PM EST (559)-275-2293
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Emergency telephone number

Emergency Phone No.	(559)-275-2293; M-F 8:00 AM-5:30 PM EST
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Not classified as dangerous for supply/use.
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Label elements

Hazard Symbol(s)	None
Signal Word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	

Avoid inhalation of aerosol or mist. Employ good industrial hygiene and work practices. Avoid release to the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists get medical attention.

IF ON SKIN OR HAIR: Rinse with water.

IF INHALED (Aerosol or Mist): Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

IF SWALLOWED: Call a doctor if you feel unwell.

Store product and dispose of unused product and packaging in compliance with all applicable federal, state, and local regulations.

Additional Information

Other Hazards	None Not classified as PBT or vPvB
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard classification
Amorphous Colloidal Silica	25 - 35	7631-86-9	Not classified as dangerous for supply/use.
Water	65 - 75	7732-18-5	Not classified as dangerous for supply/use.

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. - **None**

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Inhalation of aerosol/mist may cause respiratory irritation. Treat symptomatically.
Skin Contact	Not normally required. Wash exposed skin with plenty of water.
Eye Contact	Remove any contact lenses. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms develop, obtain medical attention.
Ingestion	If symptoms are evident call a doctor. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed None

Indication of any immediate medical attention and special treatment needed None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture None

Advice for fire-fighters

Fire fighters should wear protective clothing appropriate for the surrounding fire.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Avoid skin contact. Do not get in eyes.
Environmental precautions	Do not allow to enter drains, sewers or watercourses.
Methods and material for containment and cleaning up	Contain and collect spillages with suitable measures (berms, dikes, adsorbent material). Transfer to a suitable container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid generation of airborne respirable particles. Do not get in eyes.
Conditions for safe storage, including any incompatibilities	
-Storage temperature	Store above 5°C (41°F) and below 35°C (95°F). Protect from freezing.
-Incompatible materials	None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA)			IDLH	Note:
			TLV (ACGIH)	NIOSH (REL)	ACGIH	
Silica	7631-86-9	80% SiO ₂ mg/m ³ 20 Million particles per cubic foot	-----	6 mg/m ³	3,000 mg/m ³	-----

- LTEL: Long Term Exposure Limit; IDLH: Immediately Dangerous to Life and Health

Exposure controls

Appropriate engineering controls Controls sufficient to contain the product and prevent the generation of respirable aerosols/mists.

Personal protection equipment The following to be used as necessary:

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Eye/face protection



Safety glasses with side-shields

Skin protection (Hand protection/ Other)



Gloves (PVC, Neoprene, Nitrile or Natural rubber).

Respiratory protection



Not normally required. If a risk assessment determines that respirable aerosol/mist particles are present then a suitable particulate respirator should be used.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	White
Odor	None
Odor Threshold (ppm)	Not available.
pH (Value)	10 - 11
Melting Point (°C) / Freezing Point (°C)	0 (Water)
Boiling point/boiling range (°C):	100 (Water)
Flash Point (°C)	Non-combustible
Evaporation Rate	Not available.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour pressure (Pascal)	Similar to Water
Vapour Density (Air=1)	Similar to Water
Density (g/ml)	1.20 – 1.25
Solubility (Water)	Miscible
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not available. / Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions.

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Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	None anticipated.
Incompatible materials	None anticipated.
Hazardous decomposition product(s)	None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Skin Contact, Eye Contact

Information on toxicological effects

Amorphous Silica (CAS# 7631-86-9) – Literature Values for Synthetic Amorphous Silica

Acute toxicity	Oral: LD50 > 5000 mg/kg (rat) Dermal LD50 >2000 mg/kg (rabbit) Inhalation LC50 >5.01 mg/L (5010 mg/m3) as a respirable dust (rat)
Irritation / Corrosivity	Unlikely to cause skin irritation. Unlikely to cause eye irritation.
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	None anticipated
Mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	Oral rat – No evidence of a carcinogenic effect at 2000 mg/kg for 2 years. It is unlikely to present a carcinogenic hazard to man.

No.	IARC	ACGIH	OSHA
No.	No.	No.	No.
Developmental Toxicity		Oral hamster – no effects observed at 1600 mg/kg Oral rat– no effects observed at 1000 mg/kg in a 2 generation reproductive/developmental study	
Toxicity for reproduction		Oral rat– no effects observed at 1000 mg/kg in a 2 generation reproductive/developmental study	
Other information		None known.	

SECTION 12: ECOLOGICAL INFORMATION

Substances in preparations / mixtures:

Amorphous Silica (CAS# 7631-86-9) – Literature Values for Synthetic Amorphous Silica

Acute toxicity	LC50 (96 hour): >500 mg/l (Fish) EC50 (48 hour): >10,000 mg/l (Aquatic invertebrates) EC50 (72 hour): >173 mg/l (Algae)
Long Term Toxicity	21 Day NOEC: >100 mg/l (Aquatic invertebrates)
Persistence and degradability	The product a synthetic version of a naturally occurring mineral.
Bioaccumulative potential	The substance has low potential for bioaccumulation.
Mobility in soil	The substance has low mobility in soil.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number			
Proper Shipping Name			
Transport hazard class(es)			
Packing group		Not classified as dangerous for transport.	
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed as Active.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	-----	-----	-----

SARA 311/312 - Hazard Categories: None

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	RQ (Pounds)	TPQ (Pounds)
None	-----	-----	-----

Proposition 65 (California):

	CAS No.	Typical %wt.	Hazards
None	-----	-----	-----

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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

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