

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier Ready Mix Concrete

Chemical Name Mixture
CAS No. Mixture
Trade Name(s) Concrete

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

Identified Use(s) Construction material

Uses Advised Against None.

Details of the supplier of the safety data sheet

Company Identification O&G Industries

112 Wall Street

Torrington, Connecticut 06790

Telephone (860) 489-9261

Emergency telephone number

Emergency Phone No. Not classified as dangerous for supply/use. Please contact the

supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) / GHS Classification

Eye Dam. 1; Skin Corr. 1C; Skin Sens. 1B

Label elements

Hazard Symbol



Signal Word(s)

Hazard Statement(s)

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Precautionary Statement(s) Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin after use.

Other hazards Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete

may release crystalline silica dust which: Causes damage to organs: Lungs (silicosis) and May cause cancer: Lungs. Avoid breathing dust. Wear suitable respiratory protective equipment if processing involves

working in areas where dusts are likely to be evolved.

Additional Information None

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	% wt.	CAS No.
Aggregate (crushed stone, sand, gravel, slag)	> 50	Various
Portland Cement ^	10 - 30	8052-42-4
Concrete additives	< 1	Various
Water	10 - 20	7732-18-5

[^]Contains: <0.1% hexavalent chromium (CrVI) metals and salts.

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. Please see Section 8 of SDS for more details.

- Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Not normally required. Move person to fresh air. Apply artificial respiration if

necessary. If symptoms persist, obtain medical attention.

Skin Contact Wash immediately with water. Table vinegar and additional water may help to

neutralize and prevent skin burns. If irritation (redness, rash, blistering)

develops, get medical attention.

Eye Contact Flush eyes with water for at least 15 minutes while holding eyelids open.

Remove contact lenses, if present and easy to do. Continue rinsing. Get

immediate medical attention.

Ingestion Not normally required. Do not induce vomiting. Do not give anything by mouth

to an unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both

acute and delayed

May cause an allergic skin reaction. Contains: trace chromium metals and salts

inherent in portland cement.

Indication of any immediate medical attention

and special treatment needed

None known

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 known

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Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions

Methods and material for containment and cleaning up

Reference to other sections Additional Information Not normally required. Not normally required. Not normally required.

None None.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may

release crystalline silica dust. Avoid breathing dust. Wear suitable respiratory protective equipment if processing involves working in areas where dusts are

likely to be evolved.

Conditions for safe storage, including any incompatibilities

-Storage temperature Ambient temperatures.
-Incompatible materials Strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits: Applicable only to heated product or milling, cutting, chipping of the product.

		(8hr TWA)		(STEL)		
SUBSTANCE.	CAS No.	PEL (OSHA) *	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Crystalline Silica (respirable particulate)		0.050 mg/m3 ^(R) *	0.025 mg/m3 ^			See below

⁽R) Respirable fraction; \(^{\text{Suspected Human Carcinogen}\); \(^{\text{NSHA Carcinogen}}\) - employers must ensure compliance with 1926.1153 - Respirable Crystalline Silica, as applicable.; \(^{\text{TWA}} = 8\) hour time-weighted average; \(^{\text{STEL}} = 8\) Short Term Exposure Limit.

Recommended monitoring method NIOSH 7500 (Crystalline Silica)

Exposure controls

Appropriate engineering controls Not normally required.

Personal protection equipment

Eye/face protection The following to be used as necessary: Safety Glasses



Skin protection (Hand protection/ Other)

The following to be used as necessary: Impervious gloves and boots.



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Respiratory protection



In case of heating the product or milling, cutting, chipping of the product, respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator may be sufficient. Check with protective equipment manufacturer's data.

Thermal hazards Not normally required.

Environmental Exposure Controls Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid / Solid Mixture

Color. Grey Odor None

Odor Threshold (ppm)

Not available.

pH (Value) > 11

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation Rate

Flammability (solid, gas)

Explosive Limit Ranges

Vapor pressure (Pascal)

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Vapor Density (Air=1)Not applicable.Density (g/ml)~ 2.0 - 2.5Solubility (Water)NegligibleSolubility (Other)Not knownPartition Coefficient (n-Octanol/water)Not applicable.Auto Ignition Point (°C)Non-combustible.Decomposition Temperature (°C)Not applicable.

Decomposition Temperature (°C)

Kinematic Viscosity (cSt) @ 40°C

Explosive properties

Oxidizing properties

Other information

Not applicable.

Not available

Not explosive.

Not oxidizing.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions May react violently with: strong acids

Conditions to avoid Incompatible materials

Incompatible materials Strong acids
Hazardous decomposition product(s) None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Cement:

Acute toxicity Not acutely toxic

Irritation/Corrosivity

Causes severe skin burns and eye damage.
Sensitization

May cause an allergic skin reaction.

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Repeated dose toxicity Not to be expected.

Carcinogenicity Not to be expected at typical road paving temperatures.

NTP	IARC	ACGIH	OSHA
No.	Yes.*	No.	No.

Mutagenicity Not to be expected. Reproductive toxicity Not to be expected.

Other information * Mechanical disruption (e.g., milling, cutting, chipping) of cured concrete may release crystalline silica dust.

Crystalline Silica (quartz and christobalite)

Acute toxicity LD50 (rat): >5000 mg/kg bw

LD50 (dermal): >2000 mg/kg bw

LC50 (inhalation, fume): >94.4 mg/m³ - Causes damage to organs: Lungs (silicosis)

Irritation/Corrosivity

Not to be expected
Sensitization

Not to be expected

Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure: Lungs (silicosis),

immune system, kidneys.

Carcinogenicity May cause cancer. Lungs

NTP	IARC	ACGIH	OSHA
No.	Yes.	A2	Yes.

Mutagenicity Not to be expected. Reproductive toxicity Not to be expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Short term Not acutely toxic
Long Term Not be expected.

Persistence and degradability The product is not biodegradable.

Bioaccumulative potential The product has no potential for bioaccumulation.

Mobility in soilThe product has low mobility in soil.Results of PBT and vPvB assessmentNot classified as PBT or vPvB.

Other adverse effects None known.

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

Ground or Water Domestic Voyage (DOT): Not classified as dangerous for transport.

SECTION 15: REGULATORY INFORMATION

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

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TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.

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

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4).					
Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)		
None					
SARA 311/312 - Hazard Categories: Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed) SARA 313 - Toxic Chemicals (40 CFR 372):					
Chemical I	Name	CAS No.	Typical %wt.		

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

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

SECTION 16: OTHER INFORMATION

Additional Information

None

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

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