



CP 40 Castable

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date: 5/1/2015 Revision date: 8/20/2025 Supersedes: 9/9/2022

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : CP 40 Castable
CAS-No. : Mixture
Product code : 0788

1.2. Other means of identification

Other means of identification : Basic Speciality

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Refractory
Recommended use : Industrial use

1.4. Supplier's details

RHI Magnesita
One Robinson Plaza, Suite 300
6600 Steubenville Pike
Pittsburgh, PA, 15205
United States
T 412-494-4491

Resco_SDS.TDS@rhimagnesita.com - WWW.RescoProducts.com

1.5. Emergency phone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300
Outside USA & Canada +1 703-741-5970

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2B	H320	Causes eye irritation.
Full text of H statements : see section 16		

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation
H320 - Causes eye irritation

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear eye protection, protective gloves, Dust respirator.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

CP 40 Castable

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Magnesium Oxide	CAS-No.: 1309-48-4	60 – 80	Not classified
Transvaal Chrome Ore	CAS-No.: 1308-31-2	30 – 60	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Allow affected person to breathe fresh air.
First-aid measures after skin contact : Gently wash with plenty of soap and water.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Cough.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : In case of fire, all extinguishing media allowed.

5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Safety glasses. Protective gloves. [In case of inadequate ventilation] wear respiratory protection.
Emergency procedures : Avoid contact with skin. Avoid contact with eyes.

For emergency responders

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

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : On land, sweep or shovel into suitable containers.
For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Wash skin thoroughly with mild soap and water.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Store this product in a dry location where it can be protected from the elements.
Incompatible products : Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Magnesium Oxide (1309-48-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® TWA 10 mg/m³ inhalable dust

USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA 10 mg/m³ respirable dust

Transvaal Chrome Ore (1308-31-2)

USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® TWA 0.05 mg/m³ inhalable dust

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations.

CP 40 Castable

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular Mixture.
Color	: Dark
Odor	: None
Odor threshold	: No data available
pH	: No data available
Melting point	: > 2000 °F
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: ≈ 2.5
Solubility	: Moderately soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Fire conditions may produce small amounts of hexavalent chromium and other oxidation products.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified

CP 40 Castable

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Acute toxicity (inhalation) : Not classified

Magnesium Oxide (1309-48-4)

LD50 oral rat : > 5000 mg/kg (Rat, Literature study, Oral)

LD50 dermal rabbit : > 2000 mg/kg body weight (Rabbit, Literature study, Dermal)

Skin corrosion/irritation : Causes skin irritation.

Magnesium Oxide (1309-48-4)

pH : 11 (10 %)

Serious eye damage/irritation : Causes eye irritation.

Magnesium Oxide (1309-48-4)

pH : 11 (10 %)

Respiratory or skin sensitization : Respiratory sensitization: Not classified.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Magnesium Oxide (1309-48-4)

Viscosity, kinematic : Not applicable (solid)

Symptoms/effects after inhalation : Cough.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

12.2. Persistence and degradability

CP 40 Castable (Mixture)

Persistence and degradability : Not applicable

Magnesium Oxide (1309-48-4)

Persistence and degradability : Not applicable.

Chemical oxygen demand (COD) : Not applicable

ThOD : Not applicable

Transvaal Chrome Ore (1308-31-2)

Persistence and degradability : Not established.

Chemical oxygen demand (COD) : Not applicable

ThOD : Not applicable

12.3. Bioaccumulative potential

Magnesium Oxide (1309-48-4)

Bioaccumulative potential : No bioaccumulation data available.

Transvaal Chrome Ore (1308-31-2)

Bioaccumulative potential : No data available.

12.4. Mobility in soil

Magnesium Oxide (1309-48-4)

Surface tension : No data available in the literature

Ecology - soil : No data available.

Transvaal Chrome Ore (1308-31-2)

Ecology - soil : No data available.

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Chromite (Cr⁺³) may in normal use be converted chemically to a chromate (Cr⁺⁶). Hexavalent chromium (Cr⁺⁶) is considered a hazardous material.

CP 40 Castable

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Transvaal Chrome Ore	CAS-No. 1308-31-2	30 – 60%
----------------------	-------------------	----------

15.2. International regulations

CANADA

Magnesium Oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

Transvaal Chrome Ore (1308-31-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

CP 40 Castable (Mixture)

U.S. - California - Proposition 65 - Other information	This product contains chromite (Cr ³⁺) which may in normal use, be converted chemically to a chromate (Cr ⁶⁺) hexavalent chrome, a chemical known to the State of California to cause cancer.
--	---

Transvaal Chrome Ore (1308-31-2)

U.S. - California - Proposition 65 - Other information	This product contains chromite (Cr ³⁺) which may in normal use, be converted chemically to a chromate (Cr ⁶⁺) hexavalent chrome, a chemical known to the State of California to cause cancer.
--	---

Component	State or local regulations
Magnesium Oxide(1309-48-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Transvaal Chrome Ore(1308-31-2)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 8/20/2025

Issue date : 5/1/2015

Full text of hazard classes and H-statements

H315	Causes skin irritation
H320	Causes eye irritation

Safety Data Sheet (SDS), USA

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, RHI Magnesita makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.