

1 Identification of substance

Product details

Trade name: Type Z-146, Z-146PC and Z-146T

MSDS ID Number: Z-01790

Manufacturer/Supplier:

W.R. Grace & Co. -Conn.
62 Whittemore Avenue
Cambridge, MA 02140 USA

Grace Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
In Canada: +1-905-683-8561

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Composition/Data on components

Chemical characterization

Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:		
65997-15-1	Portland cement	30-50%
1333-86-4	Carbon black	2.0-5.0%
14808-60-7	Quartz (SiO ₂)	0.0-1.0%

3 Hazards identification

Hazard description:

Caution!
Irritant

Information pertaining to particular dangers for man and environment:

This product contains less than 5 % quartz which is part of a natural material.

Quartz is classified by IARC (International Agency for Research on Cancer) as carcinogenic to humans by inhalation (Group I).

Irritating to skin.

Risk of serious damage to eyes.

Contains chromium (VI). May cause allergic reactions.

Inhalation:

Causes respiratory tract irritation.

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Quartz can cause silicosis, lung cancer and other lung diseases on prolonged exposure.

Eye Contact: Causes serious eye damage.

Skin Contact: Irritant to skin and mucous membranes.

NFPA ratings (scale 0 - 4)



Health = 2

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *2

Flammability = 0

Reactivity = 0

4 First aid measures

After inhalation:

Take affected persons into fresh air and keep quiet.

Seek immediate medical advice.

If breathing has stopped, give artificial respiration then oxygen if needed.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If skin irritation continues, consult a doctor.

Seek immediate medical advice.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing: Do not induce vomiting; immediately call for medical help.

5 Fire fighting measures

Suitable extinguishing agents: The product will not burn.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

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Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Protective work clothing

Dispose contaminated material as waste according to section 13 of the MSDS.

7 Handling and storage**Handling:****Information for safe handling:**

Open and handle receptacle with care.

Prevent formation of dust.

Information about protection against explosions and fires:

Empty containers may retain hazardous residue, both liquid and vapor.

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:**65997-15-1 Portland cement**

PEL 50 mppcf or 15* 5** mg/m³

*total dust **respirable fraction

REL 10* 5** mg/m³

*total dust **respirable fraction

TLV (10) NIC-1* mg/m³

(E); NIC-A4;*as respirable fraction

1333-86-4 Carbon black

PEL 3.5 mg/m³

REL 3.5* mg/m³

*0.1 in presence of PAHs, as PAHs; 10-hr TWA

TLV 3.5 mg/m³

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14808-60-7 Quartz (SiO₂)

PEL	see Quartz listing
REL	0.05* mg/m ³ *respirable dust
TLV	0.025* mg/m ³ *as respirable fraction

Additional information: The lists that were valid during the creation were used as basis.

Personal protective equipment:

General protective and hygienic measures: Avoid contact with the eyes and skin.

Breathing equipment:

Respiratory protection is not normally required. If a vapor or mist is created, use an approved dust/mist respirator (NIOSH N95).

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Gloves should be impermeable and resistant to the product. Selection of material should be considered before use.

Eye protection:

Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

Body protection: Protective work clothing

9 Physical and chemical properties**General Information**

Form:	Powder
Color:	According to product specification
Odor:	Characteristic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

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Density at 20°C (68°F): ~21 Lbs/Ft3
Solubility in / Miscibility with
Water: Not miscible or difficult to mix.
pH-value at 20°C (68°F): ~12

10 Stability and reactivity

Thermal decomposition: No decomposition if used according to specifications.

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

11 Toxicological information

Acute toxicity:

Primary irritant effect:

on the skin: May be irritating to the skin on prolonged contact

on the eye: May be irritating to the eyes.

12 Ecological information

Additional ecological information:

General notes:

Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

Product: Comply with Federal, State and local regulations.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

DOT regulations:

Hazard class: -

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Land Transport ADR/RID (cross-border):

ADR/RID class: -

-

Inland shipping ADN:

ADN/R Class: -

Maritime Transport IMDG:

IMDG Class: -

-

Marine pollutant: No

Air Transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

15 Regulations**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Delayed (chronic)	Yes
Health Immediate (acute)	Yes
Flammable	No
Reactive	No
Pressure	No

National Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

Remarks:**CEPA (Canadian DSL):**

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65**Chemicals known to cause cancer:**14808-60-7 Quartz (SiO₂)

1333-86-4 Carbon black

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

WHMIS Classification(s):

D2A - Very toxic material causing other toxic effects

**Carcinogenicity Categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)14808-60-7 Quartz (SiO₂)

1333-86-4 Carbon black

NTP (National Toxicology Program)14808-60-7 Quartz (SiO₂)

K

TLV-ACGIH (Threshold Limit Value for Carcinogens established by ACGIH)14808-60-7 Quartz (SiO₂)

A2

1333-86-4 Carbon black

A4

NIOSH-Cancer (National Institute for Occupational Safety and Health)14808-60-7 Quartz (SiO₂)

1333-86-4 Carbon black

OSHA-Cancer (Occupational Safety & Health Administration)

None of the ingredients is listed.

National Volatile Organic Emission Standards for Architectural Coatings:

Grams/Liter =0%

Volatile Organic Content:

European EINECS

All ingredients are listed.

Philippines Inventory of Chemicals and Chemical Substances PICCS

All ingredients are listed.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

All ingredients are listed.

Australian Inventory of Chemical Substances AICS

All ingredients are listed.

Existing and New Chemical Substance List ENCS

All ingredients are listed.

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Korean Existing Chemical Inventory

All ingredients are listed.

Product related hazard information:**Hazard symbols:**

Irritant

Risk phrases:

Irritating to skin.

Risk of serious damage to eyes.

Safety phrases:

Do not breathe dust.

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves and eye/face protection.

This material and its container must be disposed of as hazardous waste.

Special labeling of certain preparations:

Contains chromium (VI). May cause allergic reactions.

Non-hazardous Ingredients

65996-61-4	Cellulosic Fiber	2.0-5.0%
8031-18-3	Clay 2	2.0-5.0%
1318-16-7	Aluminium ore	30-50%
65997-17-3	Chopped continuous glass filament	1.0-2.0%

16 Other information

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

USA