

1 Identification of substance

Product details

Trade name: OPTEC EC-650

MSDS ID Number: MP-90444

Manufacturer/Supplier:

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

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
E-Mail: msds.gcp@grace.com

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:		
1310-73-2	Sodium hydroxide	1.0-2.0%
1312-76-1	Potassium silicate	2.0-5.0%

Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

Information pertaining to particular dangers for man and environment:

Irritating to eyes and skin.

Potential Health Effects:

Inhalation: Causes respiratory tract irritation.

Eye Contact: Causes eye irritation.

Skin Contact: May be irritating to the skin on prolonged contact.

NFPA ratings (scale 0 - 4)



Health = 2

Fire = 0

Reactivity = 0

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HMIS-ratings (scale 0 - 4)

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HEALTH	2	Health = *2
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

* **4 First aid measures****After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

Seek immediate medical advice.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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: CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

Protective equipment: Wear self-contained respiratory protective device.

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.

Measures for environmental protection:

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

Dilute with plenty of water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

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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.

Store in original containers.

Prevent formation of aerosols.

Ensure good interior ventilation.

Information about protection against explosions and fires: No special measures required.**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:**

Protect from frost.

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:****1310-73-2 Sodium hydroxide**

PEL	2 mg/m ³
REL	Short-term value: C 2 mg/m ³
TLV	Short-term value: C 2 mg/m ³

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.

Do not inhale gases / fumes / aerosols.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands: Protective gloves

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Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

PVC gloves.

Not suitable are gloves made of the following materials:

Leather gloves

Strong gloves

Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties**General Information**

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

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212°F)
Flash point:	Not applicable.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density at 20°C (68°F):	1.04 g/cm ³
Solubility in / Miscibility with	
Water:	Fully miscible.
pH-value at 20°C (68°F):	10

10 Stability and reactivity

Thermal decomposition: No decomposition if used according to specifications.

Dangerous products of decomposition: Carbon monoxide and carbon dioxide

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11 Toxicological information**Acute toxicity:****LD/LC50 values relevant for classification:****1310-73-2 Sodium hydroxide**

Oral | LD50 | 2000 mg/kg (rat)

1312-76-1 Potassium silicate

Oral | LD50 | > 2000 mg/kg (rat)

Primary irritant effect:**on the skin:** May be irritating to the skin on prolonged contact**Sensitization:** No sensitizing effects known.**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**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**14 Transport information****DOT regulations:****Hazard class:** -**Land Transport ADR/RID (cross-border):****ADR/RID class:** -**Inland shipping ADN:****ADN/R Class:** -**Maritime Transport IMDG:****IMDG Class:** -**Marine pollutant:** No

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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 Hazardard Catagories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	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.

CEPA (Canadian DSL):

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

California Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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):

D2B - Toxic material causing other toxic effects



Carcinogenicity Categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

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IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV-ACGIH (Threshold Limit Value for Carcinogens established by ACGIH)

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Cancer (Occupational Safety & Health Administration)

None of the ingredients is listed.

European EINECS

All ingredients are listed.

Inventory of Existing Chemical Substances manufactured or imported in China IECSC

Not determined.

Existing and New Chemical Substance List ENCS

Not determined.

ENCA/MITI

Not determined.

Korean Existing Chemical Inventory

Not determined.

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

Irritant

Risk phrases:

Irritating to eyes and skin.

Safety phrases:

Do not breathe fumes / aerosol

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

Wear suitable gloves.

National regulations:**Other regulations, limitations and prohibitive regulations** All components EINECS/ELINCS listed or notified.**Non-hazardous Ingredients**

7732-18-5 | Water

50-100%

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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USA