

### 1 Identification of substance

#### Product details

**Trade name:** GRACE® General Cleaner and Efflorescence Remover Concentrate

**MSDS ID Number:** MP-90332 Replaces MSDS ID Number: MP-90179

**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)  
CAN: 1-905-683-8561 (24 hours)

**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:**

7664-38-2	Phosphoric acid	C; R 34	30-50%
7697-37-2	Nitric acid	C, O; R 8-35	5.0-10.0%
64-19-7	Acetic acid	C; R 10-35	2.0-5.0%

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

### 3 Hazards identification

#### Hazard description:

C Corrosive

#### Information pertaining to particular dangers for man and environment:

Review information in this MSDS and product label prior to use.

Causes burns.

#### Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

#### NFPA ratings (scale 0 - 4)



Health = 3  
Fire = 0  
Reactivity = 0

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Reviewed on 02/10/2003

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**HMIS-ratings (scale 0 - 4)**

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HEALTH	3	Health = 3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

#### 4 First aid measures

**General information:** Immediately remove any clothing soiled by the product.

**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.

**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.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

#### 5 Fire fighting measures

**Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**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:** Not required.

**Measures for environmental protection:** No special measures required.

**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.  
Use neutralizing agent.  
Dispose contaminated material as waste according to section 13 of the MSDS.

#### 7 Handling and storage

**Handling:**

**Information for safe handling:**

Risk of serious damage to eyes.  
Open and handle receptacle with care.

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Prevent formation of aerosols.

**Information about protection against explosions and fires:**

Empty containers may retain hazardous residue, both liquid and vapor. Do not cut, drill, grind or weld on or near container, whether empty or full.

**Storage:**

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

**Further information about storage conditions:** None.

## 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:

#### 7664-38-2 Phosphoric acid

PEL	1 mg/m <sup>3</sup>
REL	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
TLV	Short-term value: 3 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>

#### 7697-37-2 Nitric acid

PEL	5 mg/m <sup>3</sup> , 2 ppm
REL	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm Long-term value: 5.2 mg/m <sup>3</sup> , 2 ppm

#### 64-19-7 Acetic acid

PEL	25 mg/m <sup>3</sup> , 10 ppm
REL	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
TLV	Short-term value: 37 mg/m <sup>3</sup> , 15 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

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

**Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

**Breathing equipment:**

A dust/mist respirator or organic vapor respirator with prefilter may be needed to control exposures if mist or spray is generated. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

**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.

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Synthetic gloves

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**Eye protection:**

Tightly sealed goggles

Face protection

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

<b>Form:</b>	Fluid
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	83°C (181°F)

**Flash point:** Not applicable.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Maximum VOC:** 3.00 %

**Vapor pressure at 20°C (68°F):** 0.0 hPa (0 mm Hg)

**Density:** Not determined.

### Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix.

## 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

## 11 Toxicological information

### Acute toxicity:

**LD/LC50 values that are relevant for classification:**

**64-19-7 Acetic acid**

Oral	LD50	3310 mg/kg (rat)
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**Primary irritant effect:**

**on the skin:** Caustic effect on skin and mucous membranes.

**on the eye:** Strong caustic effect.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## 12 Ecological information

**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

## 13 Disposal considerations

**Product:**

Comply with Federal, State, and local regulations

Waste product is defined as hazardous by US EPA due to corrosivity (D002).

**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

**DOT regulations:**

**Hazard class:** 8

**Identification number:** UN3264

**Packing group:** II

**Proper shipping name (technical name):** Corrosive liquid, acidic, inorganic, n.o.s., contains nitric acid, phosphoric acid

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Label 8

**Land transport ADR/RID (cross-border):**

**ADR/RID class:** 8 Corrosive substances  
**Item:** 17b  
**Danger code (Kemler):** 80  
**UN-Number:** 3264  
**Description of goods:** Corrosive liquid, acidic, inorganic, n.o.s., contains nitric acid, phosphoric acid

**Maritime transport IMDG:**

**IMDG Class:** 8  
**Page:** 8147-1  
**UN Number:** 3264  
**Label** 8  
**Packaging group:** II  
**EMS Number:** 8-15  
**MFAG:** 760  
**Marine pollutant:** No  
**Propper shipping name:** Corrosive liquid, acidic, inorganic, n.o.s., contains nitric acid, phosphoric acid

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** 8  
**UN/ID Number:** 3264  
**Label** 8  
**Packaging group:** II  
**Propper shipping name:** Corrosive liquid, acidic, inorganic, n.o.s., contains nitric acid, phosphoric acid

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**15 Regulations**

**SARA (Superfund Amendments and Reauthorization Act)**

**Section 355 (extremely hazardous substances):**

7697-37-2	Nitric acid
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**Section 313 (specific toxic chemical listings):**

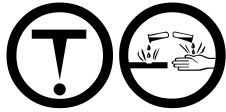
7664-38-2	Phosphoric acid
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7697-37-2	Nitric acid
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**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**WHMIS Classification(s):**



**CEPA (Canadian DSL):**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed.

**Carcinogenicity categories**

**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**Product related hazard informations:**

**Hazard symbols:**



C Corrosive

**Hazard-determining components of labelling:**

Phosphoric acid

Nitric acid

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**Risk phrases:**

Causes burns.

**Safety phrases:**

Keep locked up and out of the reach of children.

When using do not eat or drink.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with eyes.

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

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately.

Dispose of this material and its container at hazardous or special waste collection point

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

If swallowed, rinse mouth with water (only if the person is conscious)

**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