



# SAFETY DATA SHEET

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Safety Data Sheet  
acc. to OSHA HCS

Printed on: 09/28/2020

Revision date: 09/28/2020

## 1 Identification

- **Product identifier**
- **Trade name:** Cee-Bee B-55
- **Article number:** 22009
- **Application of the substance / the mixture** Descaling compound/ Scale solvent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
McGean-Rohco, Inc.  
38521 Schoolcraft Road  
Livonia, MI 48150-1085  
USA  
[sds.info@mcgean.com](mailto:sds.info@mcgean.com)
- **Information department:** Environmental, Health, and Safety
- **Emergency telephone number:**  
ChemTel: 1-800-255-3924 within the United States, Canada, Puerto Rico, and the U.S. Virgin islands. Internationally 1-813-248-0585  
International 1-813-248-0585

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

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**Hazard pictograms**

GHS05 GHS06

**Signal word** Danger**Hazard-determining components of labeling:**

phosphoric acid  
hydrofluoric acid  
2,2'-oxybisethanol

**Hazard statements**

H301+H311 Toxic if swallowed or in contact with skin.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.  
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.  
vPvB: Not applicable.

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## 3 Composition/information on ingredients

- **Chemical characterization:**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· <b>Dangerous components:</b>		
CAS: 7664-38-2	phosphoric acid	10-20%
CAS: 111-46-6	2,2'-oxybisethanol	2.5-5.0%
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	2.5-5.0%
CAS: 7664-39-3	hydrofluoric acid	1.0-2.5%

## 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Do not induce vomiting; immediately call for medical help.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:**  
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

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

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

<b>CAS: 7664-38-2 phosphoric acid</b>	
PEL	Long-term value: 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>
<b>CAS: 111-46-6 2,2'-oxybisethanol</b>	
WEEL	Long-term value: 10 mg/m <sup>3</sup>
<b>CAS: 112-34-5 2-(2-butoxyethoxy)ethanol</b>	
TLV	Long-term value: 67.5* mg/m <sup>3</sup> , 10* ppm *Inhalable fraction and vapor
<b>CAS: 7664-39-3 hydrofluoric acid</b>	
PEL	Long-term value: 1* mg/m <sup>3</sup> , 3 ppm as F, *sulfuric acid
REL	Long-term value: 2.5 mg/m <sup>3</sup> , 3 ppm Ceiling limit value: 5* mg/m <sup>3</sup> , 6* ppm *15-min, as F
TLV	Long-term value: 0.41 mg/m <sup>3</sup> , 0.5 ppm Ceiling limit value: 1.64 mg/m <sup>3</sup> , 2 ppm as F; Skin; BEI

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Ingredients with biological limit values:	
CAS: 7664-39-3 hydrofluoric acid	
BEI	3 mg/g creatinine Medium: urine Time: prior to shift Parameter: Flourides (background)
	10 mg/g creatinine Medium: urine Time: end of shift Parameter: Flourides (background)

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

• **Exposure controls**

• **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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

• **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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **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

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several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Viscous

Color: Clear

· **Odor:** Mild

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 91 °C (195.8 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

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

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

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

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· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1.084 g/cm <sup>3</sup> (9.04598 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	9.9 %
VOC content:	9.91 %
	107.4 g/l / 0.90 lb/gal
· Solids content:	1.0 %
· Other information	No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.

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- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
 The product shows the following dangers according to internally approved calculation methods for preparations:  
 Toxic  
 Corrosive  
 Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
CAS: 68603-42-9	Amides, coco, N,N-bis(hydroxyethyl)	2B
CAS: 111-42-2	diethanolamine	2B
CAS: 123-91-1	1,4-dioxane	2B
CAS: 75-21-8	ethylene oxide	1
· NTP (National Toxicology Program)		
CAS: 123-91-1	1,4-dioxane	R
CAS: 75-21-8	ethylene oxide	K
· OSHA-Ca (Occupational Safety & Health Administration)		
CAS: 75-21-8	ethylene oxide	

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 1 (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

• <b>UN-Number</b>	UN3264
• <b>DOT, IMDG, IATA</b>	
• <b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Hydrofluoric acid)
• <b>DOT</b>	
• <b>IMDG, IATA</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, HYDROFLUORIC ACID)
• <b>Transport hazard class(es)</b>	
• <b>DOT</b>	
	
• <b>Class</b>	8 Corrosive substances

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· <b>Label</b>	8
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances
· <b>Label</b>	8
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Corrosive substances
· <b>Hazard identification number (Kemler code):</b>	86
· <b>EMS Number:</b>	F-A, S-B
· <b>Segregation groups</b>	Acids
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation":	UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID, HYDROFLUORIC ACID), 8, II
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## 15 Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

CAS: 7664-39-3 hydrofluoric acid

CAS: 75-21-8 ethylene oxide

Section 313 (Specific toxic chemical listings):

CAS: 7664-38-2 phosphoric acid

CAS: 7664-39-3 hydrofluoric acid

CAS: 111-42-2 diethanolamine

CAS: 123-91-1 1,4-dioxane

CAS: 75-21-8 ethylene oxide

TSCA (Toxic Substances Control Act):

CAS: 7664-38-2 phosphoric acid

CAS: 111-46-6 2,2'-oxybisethanol

CAS: 112-34-5 2-(2-butoxyethoxy)ethanol

CAS: 7664-39-3 hydrofluoric acid

Proposition 65

Chemicals known to cause cancer:

CAS: 68603-42-9 Amides, coco, N,N-bis(hydroxyethyl)

CAS: 111-42-2 diethanolamine

CAS: 123-91-1 1,4-dioxane

CAS: 75-21-8 ethylene oxide

Chemicals known to cause reproductive toxicity for females:

CAS: 75-21-8 ethylene oxide

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· <b>Chemicals known to cause reproductive toxicity for males:</b>		
CAS: 75-21-8	ethylene oxide	
· <b>Chemicals known to cause developmental toxicity:</b>		
CAS: 75-21-8	ethylene oxide	
· <b>Carcinogenic categories</b>		
· <b>EPA (Environmental Protection Agency)</b>		
CAS: 123-91-1	1,4-dioxane	L
· <b>TLV (Threshold Limit Value established by ACGIH)</b>		
CAS: 111-42-2	diethanolamine	A3
CAS: 123-91-1	1,4-dioxane	A3
CAS: 75-21-8	ethylene oxide	A2
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
CAS: 123-91-1	1,4-dioxane	
CAS: 75-21-8	ethylene oxide	

 · **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

 · **Hazard pictograms**


GHS05 GHS06

 · **Signal word** Danger

 · **Hazard-determining components of labeling:**

 phosphoric acid  
 hydrofluoric acid  
 2,2'-oxybisethanol

 · **Hazard statements**

 H301+H311 Toxic if swallowed or in contact with skin.  
 H314 Causes severe skin burns and eye damage.

 · **Precautionary statements**

 P260 Do not breathe dusts or mists.  
 P264 Wash thoroughly after handling.

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- P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center/doctor if you feel unwell.  
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

• **Department issuing SDS:** Environment Health and Safety

• **Contact:** Darla Rivera

• **Date of preparation / last revision** 09/28/2020 / 4

• **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

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Acute Tox. 3: Acute toxicity Category 3  
Skin Corr. 1B: Skin corrosion/irritation Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation Category 1

