



### SECTION 1: Product and company identification

Product name : Commander  
 Use of the substance/mixture : Cleaner  
 Product code : 141001 SDS Number: 1410  
 Company : Share Corporation  
 P.O. Box 245013  
 Milwaukee, WI 53224  
 T (414) 355-4000  
 Emergency number : Chemtrec: (800) 424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Met. Corr. 1 H290  
 Skin Corr. 1B H314

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : May be corrosive to metals  
 Causes severe skin burns and eye damage  
 Precautionary statements (GHS US) : Keep only in original container.  
 Do not breathe mist, spray.  
 Wash thoroughly after handling  
 Wear eye protection, protective clothing, protective gloves.  
 If swallowed: rinse mouth. Do NOT induce vomiting  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 If inhaled: Remove person to fresh air and keep comfortable for breathing  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a doctor, a POISON CENTER  
 Specific treatment (see First aid measures on this label)  
 Wash contaminated clothing before reuse.  
 Absorb spillage to prevent material-damage.  
 Store locked up.  
 Store in corrosive resistant container with a resistant inner liner.  
 Dispose of contents/container to comply with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
potassium hydroxide, 45% conc<50%, aqueous solutions	(CAS-No.) 1310-58-3	1-5	Met. Corr. 1, H290 Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314

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Name	Product identifier	%	GHS US classification
Glycol Ether EB	(CAS-No.) 111-76-2	1-5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304
Sodium Tripolyphosphate Anhydrous	(CAS-No.) 7758-29-4	1-5	Not classified
disodium metasilicate	(CAS-No.) 6834-92-0	1-5	Skin Corr. 1B, H314 STOT SE 3, H335
Cocamidopropyl Hydroxy Sultaine	(CAS-No.) 68139-30-0	1-5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash immediately with lots of water.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist.
- First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Rinse mouth. Do NOT induce vomiting. Drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Causes severe skin burns and eye damage.
- Symptoms/effects after inhalation : None under normal use.
- Symptoms/effects after skin contact : Causes severe burns.
- Symptoms/effects after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
- Symptoms/effects after ingestion : Gastrointestinal complaints.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

#### 5.2. Special hazards arising from the substance or mixture

- Reactivity : Upon combustion: CO and CO2 are formed.

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers.
- 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

- General measures : Isolate from fire, if possible, without unnecessary risk.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective goggles. Face-shield.
- Emergency procedures : Keep upwind.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released product, pump into suitable containers.
- Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Store in original container.

Incompatible products : Strong acids.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Glycol Ether EB (111-76-2)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
ACGIH	Remark (ACGIH)	URT, eye, & skin irr
disodium metasilicate (6834-92-0)		
Not applicable		
Sodium Tripolyphosphate Anhydrous (7758-29-4)		
Not applicable		
Cocamidopropyl Hydroxy Sultaine (68139-30-0)		
Not applicable		

#### 8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Use appropriate personal protective equipment when risk assessment indicates this is necessary.



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Yellow liquid.

Odor : Mild odour

Odor threshold : No data available

pH : 12 - 14

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 200 °F Closed Cup

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available



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Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.05 g/ml
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
VOC content	: < 4 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Upon combustion: CO and CO<sub>2</sub> are formed.

#### 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

May be corrosive to metals. Strong acids. metals.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Glycol Ether EB (111-76-2)	
LD50 oral rat	1300 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CLP (oral)	1300 mg/kg body weight
ATE CLP (dermal)	1100 mg/kg body weight
ATE CLP (dust, mist)	1.5 mg/l/4h

potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)	
LD50 oral rat	273 mg/kg (Rat, Oral)
ATE CLP (oral)	273 mg/kg body weight

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 12 - 14
Serious eye damage/irritation	: Eye damage, category 1, implicit pH: 12 - 14
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Glycol Ether EB (111-76-2)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified

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<b>Glycol Ether EB (111-76-2)</b>	
NOAEL (oral, rat, 90 days)	see comments
NOAEL (dermal, rat/rabbit, 90 days)	see comments
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: None under normal use.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
Symptoms/effects after ingestion	: Gastrointestinal complaints.
Likely routes of exposure	: Skin and eye contact

## SECTION 12: Ecological information

### 12.1. Toxicity

Glycol Ether EB (111-76-2)	
LC50 fish 1	1474 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	100 mg/l Water flea
ErC50 (algae)	1840 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	> 100 mg/l
NOEC chronic crustacea	100 mg/l daphnid
potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)	
LC50 fish 1	80 mg/l (96 h, Gambusia affinis, Pure substance)

### 12.2. Persistence and degradability

potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

### 12.3. Bioaccumulative potential

potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)	
Bioaccumulative potential	Not bioaccumulative.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Transport document description : UN1814 Potassium hydroxide, solution (Potassium Hydroxide), 8, II  
 UN-No.(DOT) : UN1814  
 Proper Shipping Name (DOT) : Potassium hydroxide, solution  
 Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
 Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger  
 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
 DOT Packaging Bulk (49 CFR 173.xxx) : 242  
 DOT Special Provisions (49 CFR 172.102) : B2, IB2, T7, TP2  
 DOT Packaging Exceptions (49 CFR 173.xxx) : 154



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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L  
DOT Vessel Stowage Location : A  
DOT Vessel Stowage Other : 52 - Stow "separated from" acids

### Additional information

Emergency Response Guide (ERG) Number : 154

Other information : When transported by ground, this product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.154. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

### ADR

No additional information available

### Transport by sea

UN-No. (IMDG) : 1814  
Proper Shipping Name (IMDG) : POTASSIUM HYDROXIDE SOLUTION  
Class (IMDG) : 8 - Corrosive substances  
Packing group (IMDG) : II - substances presenting medium danger

### Air transport

UN-No. (IATA) : 1814  
Proper Shipping Name (IATA) : Potassium hydroxide solution  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Glycol Ether EB	CAS-No. 111-76-2	1-5%
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Glycol Ether EB (111-76-2)
Subject to reporting requirements of United States SARA Section 313

potassium hydroxide, 45% conc<50%, aqueous solutions (1310-58-3)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1000 lb

Sodium Tripolyphosphate Anhydrous (7758-29-4)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb

Sodium Trimetaphosphate (7785-84-4)
Not subject to reporting requirements of the United States SARA Section 313

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Sodium Trimetaphosphate (7785-84-4)	
CERCLA RQ	5000 lb

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity

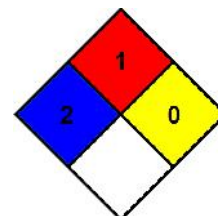
### SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

H227	Combustible liquid
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.  
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.  
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.*