

# Safety Data Sheet

## Advantage

### Section 1: Chemical product and company identification

#### Product identifier

**Product form** : Mixture  
**Product name** : Advantage  
**CAS No** : Not available  
**Product code** : XXXXX

#### Intended use of the product

**Use of the substance/mixture** : Detergent

#### Name, address and telephone of the responsible party

**Manufacturer address** : Quality Chemical  
13901 Aspinwall Road  
Cleveland, OH 44110  
1-216-292-9310

**Emergency telephone number** : 1-800-728-3798

### Section 2: Hazards Identification

#### Classification of the substance or mixture

##### Classification (GHS-US)

Skin corrosion/irritation (Category 1A) **H314**  
Acute toxicity, oral (Category 4) **H302**

# Safety Data Sheet

## Advantage

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### Label elements

#### GHS-US symbols and labeling



**Signal word:** Danger

#### Hazard statements:

**H314** - Causes severe skin burns and eye damage

**H302** - Harmful if swallowed

#### Precautionary statements:

**P260** - Do not breathe dust/fume/gas/mist/vapors/spray.

**P270** - Do not eat, drink or smoke when using this product.

**P280** - Wear protective gloves/protective clothing/eye protection/face protection.

**P301+P330+ P331** - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P303+P361+P353** - IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

**P304+P340** - IF INHALED: Remove victim to fresh air and Keep at rest in a position 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.

**P501** - Dispose of contents/container to in accordance with local, regional, national, international regulation

# Safety Data Sheet

## Advantage

### WHMIS classification (CANADA)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR)

### WHMIS classification

D2A - Materials causing other toxic effects

E - Corrosive material



### Other hazards

Not available

## Section 3: Composition/Information on ingredients

### Mixture

Name	CAS #	%	Classification (GHS-US)
Potassium hydroxide solution 45-52%	1310-58-3	39	Skin corrosion/irritation (Category 1A) Acute toxicity, oral (Category 4)
Sodium metasilicate pentahydrate	10213-79-3	9	
Trade Secret 1	-	8	
Trade Secret 2	-	5	
Trade Secret 3	-	41	

## Section 4: First aid measures

# Safety Data Sheet

## Advantage

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### Description of first aid measures

#### General

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### Inhalation

Remove victim to fresh air. If irritation occurs or if breathing becomes difficult, call a physician immediately.

#### Skin contact

Immediately flush with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician if you feel unwell.

#### Eye contact

Immediately flush with plenty of cool running water. Remove contact lenses, continue flushing for at least 15 minutes holding eyelids apart to insure rinsing of entire eye. Call a physician immediately.

#### Ingestion

Rinse mouth at once then drink 1 to 2 glasses of water or milk. Do not induce vomiting. Call a physician immediately.

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

#### Symptoms/Injuries

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

#### Symptoms/Injuries after inhalation

Harmful if inhaled.

#### Symptoms/Injuries after skin contact

Causes severe skin irritation

#### Symptoms/Injuries after eye contact

Cause severe burns that result in damage to the eyes and including blindness.

#### Symptoms/Injuries after ingestion

# Safety Data Sheet

## Advantage

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Harmful if swallowed. Causes chemical burns of mouth, throat and stomach.

### **Chronic symptoms**

The chronic symptoms of the mixture are unknown.

### **Indication of any immediate medical attention and special treatment needed**

If medical advice is needed, have product container or label at hand

## **Section 5: Fire-fighting measures**

### **Extinguishing media**

#### **Suitable extinguishing media**

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

#### **Unsuitable extinguishing media**

Do not use water jet as an extinguisher.

### **Special hazards rising from the substance or mixture**

Combustion products may include and are not limited to Carbon oxides and Nitrogen oxides (NO<sub>x</sub>).

### **Fire-fighting Instructions**

Exercise caution when fighting any chemical fire. Alert Emergency responders and tell them location and nature of hazard. Evacuate area of unprotected personnel. Wear protective clothing.

### **Protection during fire-fighting**

As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## **Section 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Eliminate any sources of ignition and prevent additional discharge of materials. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

# Safety Data Sheet

## Advantage

### Environmental precautions

Prevent the liquid from entering sewers, watercourses or low areas.

### Methods and materials for containment and cleaning up

Rinse small amounts to drain where possible. Dike or dam large spills; pump to contain or soak up on inert absorbent. Flush residue to sewer with plenty of water, rinse area thoroughly.

### Reference to other sections

Use proper personal protective equipment as indicated in Section 8.

## Section 7: Handling and Storage

### Precautions for safe handling

Keep container tightly closed. Avoid breathing dust/gas/fume/mist/spray. Use only adequate ventilation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Discard contaminated shoes

### Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store in a cool, well-ventilated place away from incompatible materials. Keep this material away from food, drink and animal feed. Keep away from strong acids. Corrosives area. Keep container closed when not in use.

### Specific end use(s)

Detergent

## Section 8: Exposure controls/personal protection

### Control parameters

#### Exposure limits

Chemical name	ACGIH	NIOSH	OSHA – Final PELs
Potassium hydroxide solution	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	Not listed

# Safety Data Sheet

## Advantage

Sodium meta silicate pentahydrate	Not listed	Not listed	Not listed
Trade Secret 1	Not listed	Not listed	Not listed
Trade Secret 2	Not listed	Not listed	Not listed
Trade Secret 3	Not listed	Not listed	Not listed

### Exposure controls

- Appropriate engineering controls** : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.
- Personal protective equipment** : Splash goggles and Face shield (29 CFR 1910.133); chemical resistant rubber gloves (29 CFR 1910.138); OSHA / NIOSH respirator (29 CFR 1910.134).
- Hand protection** : Wear appropriate chemical resistant rubber gloves (29 CFR 1910.138) to prevent skin exposure.
- Eye/face Protection** : Wear appropriate protective splash proof eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.
- Respiratory protection** : Respiratory protection is not required under normal conditions. Only in special cases, full-facepiece APR or a Self-Contained Breathing Apparatus (SCBA) can be used according to regulations found in 29 CFR 1910.134 or Canadian CSA standard Z94.4. Where concentrations in air may exceed the limits given in this section and engineering.
- Other information** : Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Wash contaminated clothes before reuse.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

- Physical State** : Liquid
- Appearance** : Straw yellow clear liquid
- Odor** : Not available

# Safety Data Sheet

## Advantage

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<b>Odor Threshold</b>	:	Not available
<b>pH</b>	:	13.0-13.5
<b>Relative Evaporation Rate (butylacetate=1)</b>	:	Not available
<b>Melting Point/ Freezing Point</b>	:	Not available
<b>Boiling Point</b>	:	>100°C
<b>Flash Point</b>	:	Not available
<b>Auto-ignition Temperature</b>	:	Not available
<b>Decomposition Temperature</b>	:	Not available
<b>Flammability (solid, gas)</b>	:	Not available
<b>Vapor Pressure</b>	:	Not available
<b>Relative Vapor Density at 20 °C</b>	:	Not available
<b>Relative Density</b>	:	Not available
<b>Specific Gravity</b>	:	1.25 - 1.30
<b>Solubility</b>	:	Completely soluble in water
<b>Log Pow</b>	:	Not available
<b>Log Kow</b>	:	Not available
<b>Kinematic viscosity</b>	:	Not available
<b>Explosive Properties</b>	:	Not available
<b>Oxidizing Properties</b>	:	Not available
<b>Explosive Limits</b>	:	Not available

### Other information

Not available

## Section 10: Stability and reactivity

### Reactivity

This product is non reactive under normal conditions of use, storage and transport.

### Chemical stability

Stable under normal temperature and storage conditions



# Safety Data Sheet

## Advantage

### Possibility of hazardous reactions

Will not occur

### Conditions to avoid

Do not mix with anything but water

### Incompatible materials

Strong acids, Soft metals such as aluminum and zinc

### Hazardous decomposition products

Carbon monoxide, Potassium oxides and other products of incomplete combustion.

## Section 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Components	Test	Species	Route of exposure	Results
Potassium hydroxide solution	LD50	Rat	Oral	273 mg/kg
	Draize test	Rabbit	Skin	50 mg/24 hour; severe
	Draize test	Rabbit	Eye	1 mg/24 hour; moderate
Trade secret 1	LD50	rat	Oral	> 1000 mg/kg
	LD50	rabbit	Dermal	> 2000 mg/kg
Trade secret 2	LD50	Mouse	Intraperitoneal	330 mg/kg

#### Skin corrosion/irritation

Causes severe skin burns

#### Serious eye damage/irritation

Causes serious eye damage

#### Respiratory or skin sensitization

Not classified

# Safety Data Sheet

## Advantage

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### **Germ cell mutagenicity**

Not classified

### **Carcinogenicity**

Not classified

### **Reproductive toxicity**

Not classified

### **Teratogenicity**

Not classified

### **Specific target organ toxicity (Single exposure)**

Not classified

### **Specific target organ toxicity (Repeated exposure)**

Not classified

### **Aspiration hazard**

Not classified

### **Symptoms/Injuries after Inhalation**

Harmful if inhaled.

### **Symptoms/Injuries after Skin Contact**

Causes severe skin irritation

### **Symptoms/Injuries after Eye Contact**

Cause severe burns that result in damage to the eyes and including blindness.

### **Symptoms/Injuries after Ingestion**

Harmful if swallowed. Causes chemical burns of mouth, throat and stomach.

### **Chronic symptoms**

The chronic symptoms of the mixture are unknown.

# Safety Data Sheet

## Advantage

### Section 12: Ecological Information

#### Toxicity

Components	Test	Species	Results
Potassium hydroxide solution	LC50	Gambusia affinis (mosquito fish)	80 mg/l/24 hr
Trade secret 2	LC50	Lepomis macrochirus (Bluegill)	486 mg/L/96 hr

<b>Persistence and degradability</b>	:	Not established
<b>Bioaccumulative potential</b>	:	Not established
<b>Mobility in soil</b>	:	Not available
<b>Other adverse effects</b>	:	Not available

### Section 13: Disposal considerations

#### Waste treatment methods

**Waste Disposal Recommendations:** Unused product as a waste is corrosive (D002) according to RCRA criteria. Consult state and local authorities for restrictions on disposal of chemical waste.

**RCRA P-Series** : Not listed

**RCRA U-Series** : Not listed

### Section 14: Transport information

In Accordance With DOT/TDG/ICAO/IATA/IMDG

<b>UN Number</b>	:	UN1760
<b>UN proper shipping name</b>	:	CORROSIVE LIQUID, N.O.S
<b>Transport hazard class</b>	:	8
<b>Packing group</b>	:	III
<b>Environmental hazards</b>	:	Not available
<b>Transport in bulk (according to Annex II of MARPOL 73/78 and</b>	:	Not available

# Safety Data Sheet

## Advantage

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the IBC Code)

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises** : Not available

### Section 15: Regulatory information

#### US Federal regulations

##### EPA TSCA regulatory flag

All components of this product are listed on the United States Toxic Substances Control Act Chemical Inventory except Sodium metasilicate pentahydrate

##### SARA 311/312 hazards

None of the chemicals in this product are under 311/312 hazards

##### SARA Section 302 Extremely hazardous substances

None of the chemicals in this product are under extremely hazardous substances

##### SARA 304 RQ (lbs)

None of the chemicals in this product are under extremely hazardous substances

##### CERCLA hazardous substances and corresponding RQs

Potassium hydroxide (CAS 1310-58-3) 1000 lbs.

##### OSHA hazards

Potassium hydroxide is listed as hazardous chemicals in this product by OSHA.

##### Clean air act

None of the chemicals in this product are classified by CAA.

#### US State Regulations

All components of this product can be found on the following state right to know lists: California, Massachusetts, New Jersey, and Pennsylvania.

# Safety Data Sheet

## Advantage

### US - California Hazardous Substances (Director's): Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed

### US - California Proposition 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### US - Massachusetts RTK - Substance: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed

### US - New Jersey RTK - Substances: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed

### US - Pennsylvania RTK - Hazardous Substances: Listed substance

Potassium hydroxide (CAS 1310-58-3) Listed

## Canada regulations

### Canadian Environmental Protection Act (CEPA)

Ingredient name	CAS #	Canadian Environmental Protection Act
Potassium hydroxide	1310-58-3	Specified on the public Portion of the Domestic Substances List and is acceptable for use under the provisions of CEPA.
Trade secret 1	-	
Trade secret 2	-	
Trade secret 3	-	

### Canadian ingredient disclosure list

Potassium hydroxide (CAS 1310-58-3) is listed in Canadian ingredient disclosure list.

## Section 16: Other information

**Revision date** : 04.03.2015

**Other information** : The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards and regulations change and conditions of the use and handling are beyond

# Safety Data Sheet

## Advantage

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