

# Safety Data Sheet - Power Kleen

Chemical Xchange  
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## Section 1: Identification

### GHS product identifier

Product name: Power Kleen

Product Code: N/A

### Recommended uses and uses advised against

Recommended use: Dishmachine Soap

Uses not recommended: Do not use this product anywhere other than a properly

## Supplier details

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## Emergency telephone number

Infotrac: (800) 535-5053

## Section 2: Hazard identification

### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

### Classification of the substance or mixture

OSHA HCS 2012

Skin Corrosion/Irritation 1  
Aquatic Environment Hazard 3 (Acute)

### Label Elements

OSHA HCS 2012

Danger



### Hazard Statements

H314 Causes severe skin burns and eye damage.  
Harmful to aquatic life.

## Precautionary Statements

### Prevention

P260 Do not breathe dusts or mists.  
P264 Wash hands and skin thoroughly after handling.  
P280 Wear protective gloves, protective apron, eye protection and face shield where appropriate.  
Avoid release to the environment unless otherwise directed on label.

### Response

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.  
P363 Wash contaminated clothing before reuse.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 Immediately call a poison control center and seek medical attention.  
P321 Specific treatment see section 4.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing.

Storage/Disposal

P501 Dispose of contents/container per guidelines in section 13.  
P405 Store locked up.  
Dispose of contents/container in accordance with local, federal and international regulations.

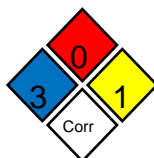
Other hazards

OSHA HCS 2012

No data available.

Other information

NFPA



Section 3: Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Sodium Hydroxide	[Caustic Soda]	CAS No. 1310-73-2	7% - 24%
Potassium Hydroxide	[Caustic Potash]	CAS No. 1310-58-3	1% - 20%
Proprietary Dispersants/Stabilizers	[Proprietary Dispersants]	CAS No. Not Applicable	0% - 8%

See section 11 for toxicological information.

Section 4: First-Aid Measures

Description of first aid measures

Inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin:

Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

Eye:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Dry skin. Skin rash/inflammation. Possible inflammation of the respiratory tract.

Indication of any immediate medical attention and special treatment needed:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

Adapt extinguishing media to the environment. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media:

No unsuitable extinguishing media known.

### Special hazards arising from the substance or mixture

Unusual fire and explosion hazards:

INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard". DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a fire hazard: see "Reactivity Hazard".

Hazardous combustion products:

On heating: release of corrosive gases/vapours. Absorbs the atmospheric CO<sub>2</sub>. Violent exothermic reaction with (some) acids. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

Advice for firefighters

Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it. Wear heat/fire exposure: compressed air/oxygen apparatus.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear gloves. Face-shield. Corrosion-proof suit. Large spills/in enclosed spaces: compressed air apparatus. Large spills/in enclosed spaces: gas-tight suit.

Emergency procedures:

Mark the danger area. No naked flames. Wash contaminated clothes. Large spills/in confined spaces: consider evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### Methods and material for containment and clean-up

Take up liquid spill into absorbent material, e.g.: dry sand/earth or powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Small quantities of liquid spill: neutralize with acid solution. Wash away neutralized product with plentiful water. Damaged/cooled tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Take account of toxic/corrosive precipitation water. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

## Section 7: Handling and Storage

### Precautions for safe handling

Handling:

Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle and open the container with care. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### Conditions for safe storage, including any incompatibilities

Storage:

Keep only in the original container in a cool, well ventilated place away from: incompatible materials. Keep container closed when not in use.

Incompatible materials or ignition sources:

Sources of ignition. Direct sunlight.

## Section 8: Exposure Controls/Personal Protection

### Control parameters

Component	Result	Exposure Limits/Guidelines		
		NIOSH	ACGIH	Canada Ontario
Sodium Hydroxide CAS No. 1310-73-2	STELs	Data lacking	Data lacking	Data lacking
	TWAs	Data lacking	2 mg/m	Data lacking
Potassium Hydroxide CAS No. 1310-58-3	STELs	Data lacking	2 mg/m <sup>3</sup>	Data lacking
	TWAs	Data lacking	2 mg/m <sup>3</sup>	Data lacking

## Exposure controls

Engineering measures and controls:

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limit values.

Incompatible materials or ignition sources:

Pictograms:



Respiratory:

Not required.

Eye and face:

Must wear goggles when using this product.

Hands:

Must wear chemical protective gloves when using this product.

Skin and body:

Must wear chemical protective clothing when using this product.

General industrial hygiene considerations:

Wash exposed skin thoroughly after handling.

Environmental exposure controls:

Follow best practice for site management and disposal of waste. Avoid release to the environment.

### Key to Abbreviations

ACGIH= American Conference of Governmental Industrial Hygiene  
 OSHA =Occupational Safety and Health Administration  
 MSHA = Mine Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures NIOSH= National Institute of Occupational Safety and Health  
 STEV = Short Term Exposure Value

STEL = Short Term Exposure Limits are based on 15-minute exposures

## Section 9: Physical and Chemical Properties

### Information on physical and chemical properties

<b>Material Description</b>				
Physical Form	Liquid		Appearance/Description	Clear liquid
Color	Deep red		Odor	Surfactant odor
Taste	Data lacking		Particulate Type	Not relevant
Particulate Size	Not relevant		Aerosol Type	Not relevant
Odor Threshold	Data lacking		Physical and Chemical Properties	Data lacking
<b>General Properties</b>				
Boiling Point	> 212F		Melting Point	Data lacking
Decomposition Temperature	Data lacking		Heat of Decomposition	Data lacking
pH	12 - 13		Specific Gravity/Relative Density	1.224
Density	Data lacking		Bulk Density	Data lacking
Water Solubility	Soluble in Water		Solvent Solubility	Data lacking
Viscosity	Data lacking		Explosive Properties	Classification criteria not met
Oxidizing Properties:	Data lacking			
<b>Volatility</b>				
Vapor Pressure	Data lacking		Vapor Density	Data lacking
Evaporation Rate	1		VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking		Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking			
<b>Flammability</b>				
Flash Point	Data lacking		UEL	Not applicable
LEL	Not applicable		Autoignition	Not applicable
Self-Accelerating Decomposition Temperature (SADT)	Data lacking		Heat of Combustion (ΔHc)	Not applicable
Burning Time	Not applicable		Flame Duration	Not applicable
Flame Height	Not applicable		Flame Extension	Not applicable
Ignition Distance	Not applicable		Flammability (solid, gas)	Not applicable
<b>Environmental</b>				

Half-Life	Data lacking
Coefficient of water/oil distribution	Data lacking
Bioconcentration Factor	Data lacking
Chemical Oxygen Demand	Data lacking
Degradation	Data lacking

Octanol/Water Partition coefficient	Data lacking
Bioaccumulation Factor	Data lacking
Biochemical Oxygen Demand BOD/BOD5	Data lacking
Persistence	Data lacking

**Section 10: Stability and Reactivity**

**Reactivity**

On heating: release of corrosive gases/vapours. Absorbs the atmospheric CO2. Violent exothermic reaction with (some) acids. Reacts with (some) metals: release of highly flammable gases/vapours (hydrogen).

**Chemical stability**

Stable under normal conditions. Absorbs the atmospheric CO2. Hygroscopic. Not established.

**Possible hazardous reactions**

Strong bases. Strong acids.

**Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**Incompatible materials**

Sources of ignition. Direct sunlight.

**Hazardous decomposition products**

Sodium oxide. Thermal decomposition generates : Corrosive vapours.

**Section 11: Toxicological Information**

**Information on toxicological effects**

Component	CAS No.	Data
Sodium Hydroxide	1310-73-2	LD50 dermal rabbit 1350 mg/kg (Rabbit; Literature, Rabbit; Literature) Data lacking Data lacking
Potassium Hydroxide	1310-58-3	Oral-rat LD50: 606.6667 mg/kg Data lacking Not expected to cause reproductive effects.

**Target organs**

No data available.

**Routes of entry and/or exposure**

No data available.

**Potential health effects**

**Inhalation**

Acute (immediate):

Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

Chronic (delayed):

Possible laryngeal spasm/oedema. Risk of lung oedema. Respiratory difficulties

**Skin**

Acute (immediate):

Causes severe skin burns.

Chronic (delayed):

Caustic burns/corrosion of the skin. Slow-healing wounds.

**Ingestion**

Acute (immediate):

Vomiting. Diarrhoea. Burns to the gastric/intestinal mucosa. Possible esophageal perforation. Bleeding of the gastrointestinal tract. Shock.

Chronic (delayed):

Disturbances of consciousness.

**Eye**

Acute (immediate):

Causes severe eye damage.

Chronic (delayed):

Corrosion of the eye tissue. Permanent eye damage. Causes serious eye damage.

**Section 12: Ecological Information**

**Toxicity**

Material data lacking.

Persistence and degradability	Material data lacking.
Bioaccumulative potential	Material data lacking.
Mobility in soil	
Other adverse effects	No studies have been found.
Other information	No additional information available.

### Section 13: Disposal Considerations

#### Waste treatment methods

Product waste	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Avoid release to the environment.
Packaging waste	Dispose of in accordance with regional laws.

### Section 14: Transport Information

Special precautions for user	Transport containers shall be physically secured to the transporting vehicle to prevent accidental loss, tampering, or unauthorized removal.
Transport in bulk according to annex II of MARPOL 73/78 and the IBC code	

### Section 15: Regulatory Information

Safety, health and environmental regulations specific to substance or mixture	
SARA hazard classifications:	Contains SARA Hazardous Chemical Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

### Section 16: Other Information

Last revision date:	6/19/2015
Preparation date:	12/5/2015
Disclaimer and statement of liability:	The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.