Power Kleen

Safety Data Sheet acc. to OSHA HCS

Printing date 02/04/2014 Reviewed on 02/04/2014

Jamson Labs

Chemical Solutions Since 1973

1 Identification

· Product identifier

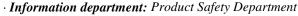
· Trade name: Chlor Brite

· Article number: 3560 PK

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Power Kleen Corporation 101 South Bayview Blvd. OLDSMAR, FL 34677

USA



· Emergency telephone number: ChemTel Inc. (800) 255-3924 Intl. +01 (813) 248-0585

2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

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

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS05

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

potassium hydroxide

sodium hypochlorite, solution 12.5 % Cl active

· Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

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

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: 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.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

- USA

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 4Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · vPvB: Not applicable.

3 Composition/information on ingredients

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

	· Dangerous	· Dangerous components:		
ſ	1310-58-3	potassium hydroxide	10-25%	
	7681-52-9	sodium hypochlorite, solution 12.5 % Cl active	2.5-10%	

4 First-aid measures

- · Description of first aid measures
- · General information:

Take affected persons out into the fresh air.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· 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:

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing. *Immediately rinse with water.*

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Remove contact lenses if able to do so.

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Remove contaminated clothing while flushing affected area with drenching shower for 5 minutes

A person vomiting while lying on their back should be turned onto their side.

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

Nausea

Corrosive and extremely irritating to all tissues.

(Contd. on page 3)

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 2)

Coughing

Unconsciousness

Gastric or intestinal disorders

Cramp

Breathing difficulty

· Danger

Danger of impaired breathing.

Danger of pneumonia.

Danger of pulmonary edema.

· Indication of any immediate medical attention and special treatment needed

Later observation for pneumonia and pulmonary edema.

If necessary oxygen respiration treatment.

If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters

Product is not flammable, however due to the possible evolution of toxic gases in fire situations, fight surrounding fires from the upwind side of the fire wearing full SCBA protective gear. Avoid breathing fumes ,vapors or gases from this product.

· Protective equipment:

Wear fully protective suit.

Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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.

USA ·

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 3)

7 Handling and storage

- · Handling:
- · Precautions for safe handling

No special precautions are necessary if used correctly.

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Unsuitable material for receptacle: glass or ceramic.

Unsuitable material for receptacle: aluminium.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

· Further information about storage conditions:

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

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:

1310-58-3 potassium hydroxide

REL Ceiling limit value: 2 mg/m³
TLV Ceiling limit value: 2 mg/m³

7681-52-9 sodium hypochlorite, solution 12.5 % Cl active

WEEL Short-term value: 2 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- $\cdot \textit{General protective and hygienic measures:} \\$

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:

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:



Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 4

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

Neoprene gloves

PVC gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Butyl rubber, BR

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 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:

Safety glasses



Tightly sealed goggles

· Body protection:

Apron

Alkaline resistant protective clothing

9 Physical and chemical properties

71 hysical and chemical properties				
· Information on basic physical and chemical properties				
· General Information				
· Appearance:				
Form:	Liquid			
Color:	Clear			
· Odor:	Chlorine-like			
· Odour threshold:	Not determined.			
· pH-value at 20 °C (68 °F):	13.3			
· Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	100 °C (212 °F)			
· Flash point:	Not applicable.			
· Flammability (solid, gaseous):	Not applicable.			
· Ignition temperature:				
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.			

(Contd. on page 6)

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

	(Contd. c	f page
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.05 g/cm³ (8.762 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/we	ater): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Water:	65.0 %	
VOC content:	6.1 %	
Solids content:	28.9 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions Contact with acids releases toxic gases.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Caution! Do not use in conjunction with other products. Dangerous gases (chlorine) may be given off.

· Hazardous decomposition products:

Chlorine compounds

Carbon monoxide and carbon dioxide

Chlorine

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	values	that are r	elevant	for c	lassification:

1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

7681-52-9 sodium hypochlorite, solution 12.5 % Cl active

Oral LD50 5800 mg/kg (mouse)

- · Primary irritant effect:
- · on the skin: Strong caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.

(Contd. on page 7)

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 6)

· 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.

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

1

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- $\cdot \textbf{\it Bioaccumulative potential} \ No \ further \ relevant \ information \ available.$
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

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

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

- · 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

- · UN-Number
- · DOT, IMDG, IATA

UN1719

(Contd. on page 8)

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

	(Contd. of page 7
· UN proper shipping name · DOT · IMDG, IATA	Caustic alkali liquids, n.o.s. (Potassium hydroxide, Hypochlorite solutions) CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE HYPOCHLORITE SOLUTION)
· Transport hazard class(es)	
CORROSIVE	
· Class · Label	8 Corrosive substances.
· Class	8 Corrosive substances.
· Label	8
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups 	Warning: Corrosive substances 80 F-A,S-B Alkalis
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Not applicable.
· UN ''Model Regulation'':	UN1719, Caustic alkali liquids, n.o.s. (Potassium hydroxide Hypochlorite solutions), 8, II

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

(Contd. on page 9)

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 8)

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicalsknown to cause reproductive toxicity for males.

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

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.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS05

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

potassium hydroxide

sodium hypochlorite, solution 12.5 % Cl active

· Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

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

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: 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.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

USA

Printing date 02/04/2014 Reviewed on 02/04/2014

Trade name: Chlor Brite

(Contd. of page 9)

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. 02/04/2014

· Department issuing MSDS: Environment protection department.

· 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

USA ·