Printing date 01/28/2014

Reviewed on 01/28/2014

1 Identification	
· Product identifier	
· Trade name: Power Plus	Jamson Labs Power Kleen
• Article number: 1720 PK	ТМ
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Power Kleen Corporation 101 South Bayview Blvd. OLDSMAR, FL 34677 USA 	Chemical Solutions Since 1973
• Information department: Product Safety Department • Emergency telephone number: ChemTel Inc. (800)	
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS05 Corrosion	
Skin Corr. 1A H314 Causes severe skin burns and	eye damage.
<i>GHS07</i> <i>Eye Irrit. 2A H319 Causes serious eye irritation.</i>	
· Hazard pictograms	beled according to the Globally Harmonized System (GHS).
GHS05	
· Signal word Danger · 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.	
	v all contaminated clothing. Rinse skin with water/shower. al minutes. Remove contact lenses, if present and easy to do. esician
Store locked up.	
Dispose of contents/container in accordance with lo	cal/regional/national/international regulations. (Contd. on page 2)
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 $\leq 2.5\%$

Trade name: Power Plus

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

Health = 3Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- $\cdot \textit{Description: Mixture of the substances listed below with nonhazardous additions.}$
- · Dangerous components:

1310-58-3 potassium hydroxide

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- 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 Corrosive and extremely irritating to all tissues.
- Nausea
- Cramp
- Gastric or intestinal disorders
- **Danger** Danger of gastric perforation.
- Indication of any immediate medical attention and special treatment needed Medical supervision for at least 48 hours.

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 No further relevant information available.

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· Advice for firefighters

· Protective equipment: Wear fully protective suit.

6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*

 $\cdot \textit{Environmental precautions: Dilute with plenty of water.}$

 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. Prevent formation of aerosols.

• Information about protection against explosions and fires: No special measures required.

 \cdot 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 oxidizing agents. Store away from foodstuffs. Do not store together with acids.

· Further information about storage conditions: 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

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

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(Contd. of page 3
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.
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:
Ma
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
Nitrile rubber, NBR
Butyl rubber, BR
Neoprene 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 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.
Not suitable are gloves made of the following materials: Leather gloves
Eye protection:
Tightly sealed goggles
Body protection:
Apron
Alkaline resistant protective clothing

9 Physical and chemical properties

 Inform 	atio	n	on basic phys	sical and	chemical	properties

• General Information

· Appearance: Form:	Liquid
Color:	Green
· Odor:	Odorless
• Odour threshold:	Not determined.
· pH-value at 20 °C (68 °F):	13.1

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		(Contd. of page 4)
• 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.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.03 g/cm ³ (8.595 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/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0~%	
Water:	96.5 %	
VOC content:	0.5 g/l / 0.00 lb/gl	
Solids content:	5.3 %	
• 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
- Reacts with strong oxidizing agents. Reacts with strong acids.
- Corrodes aluminium.
- \cdot Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:
- Hydrocarbons

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Trade name: Power Plus

Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

· Primary irritant effect:

· on the skin: Caustic effect on skin and mucous membranes.

- on the eye: Strong caustic effect.
- \cdot Sensitization: No sensitizing effects known.
- \cdot 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)

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

· Toxicity

1

- · 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:
- Generally not hazardous for water

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.

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

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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.

UN-Number	
DOT, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Potassium hydroxide)
IMDG, IATA	CORROSIVE LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
Transport hazard class(es)	
DOT	
CORROSIVE	
Class	8 Corrosive substances.
Label	8
Class	8 Corrosive substances.
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	I of Not applicable.

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Sara	alth and environmental regulations/legislation specific for the substance or mixture
Section 35	5 (extremely hazardous substances):
None of th	e ingredients is listed.
Section 31	3 (Specific toxic chemical listings):
	pentasodium triphosphate
67-56-1	methanol
TSCA (To	xic Substances Control Act):
1310-58-	3 potassium hydroxide
	0 disodium metasilicate
	4 pentasodium triphosphate
	7 Disodium cocoamphodipropionate
	8 tetrasodium ethylenediaminetetraacetate
	1 methanol
	5 water, distilled, conductivity or of similar purity
Propositio	
	known to cause cancer:
-	e ingredients is listed.
	known to cause reproductive toxicity for females:
•	e ingredients is listed.
	known to cause reproductive toxicity for males.
•	e ingredients is listed.
	known to cause developmental toxicity:
67-56-1 n	nethanol
Carcinoge	nic categories
EPA (Env	ironmental Protection Agency)
None of th	e ingredients is listed.
TLV (Thr	eshold Limit Value established by ACGIH)
	e ingredients is listed.
NIOSH-C	a (National Institute for Occupational Safety and Health)
	e ingredients is listed.

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



· Signal word Danger

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Trade name: Power Plus

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USA

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.

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 MSDS: Environment protection department.

· Date of preparation / last revision 01/17/2014

Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 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