Printing date 19.12.2014 Revision: 19.12.2014

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

· Trade name: Big K v.4

· Article number: 100930

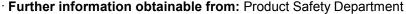
· 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Bath cleaner
- · 1.3 Details of the supplier of the Safety Data Sheet
- · Manufacturer/Supplier:

Theochem Laboratories 7373 Rowlett Park Drive

Tampa, FL 33610 Phone: 813-237-6463



1.4 Emergency telephone number:

ChemTel Inc.

(800)255-3924, +1 (813)248-0585

#### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Classifications listed also are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).



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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R35: Causes severe burns.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

· Hazard pictograms

(Contd. of page 1)



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

phosphoric acid hydrochloric acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves / eye protection.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Hazard description:
- · WHMIS-symbols:

D2B - Toxic material causing other toxic effects

E - Corrosive material



· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



### · HMIS Long Term Health Hazard Substances

None of the ingredients are listed.

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

(Contd. on page 3)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

· **vPvB:** Not applicable.

(Contd. of page 2)

### **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6	phosphoric acid C R34 Skin Corr. 1B, H314	10-25%
CAS: 68131-39-5 NLP: 500-195-7	alcohols, C12-15, ethoxylated  Xi R41; № N R50  Eye Dam. 1, H318  Aquatic Acute 1, H400	≤ 2,5%
CAS: 144-62-7 EINECS: 205-634-3 Index number: 607-006-00-8	oxalic acid  Xn R21/22;  Xi R41  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H312	≤ 2,5%
CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2	hydrochloric acid ☐ C R34; Xi R37  Met. Corr.1, H290; Skin Corr. 1B, H314  STOT SE 3, H335	≤ 2,5%

· Additional information: For the wording of the listed risk phrases refer to section 16.

#### **SECTION 4: First aid measures**

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

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

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

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

(Contd. on page 4)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 3)

· 4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders.

Coughing

Breathing difficulty

- Hazards Danger of gastric perforation.
- · 4.3 Indication of any immediate medical attention and special treatment needed

Later observation for pneumonia and pulmonary oedema.

Medical supervision for at least 48 hours.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: None.
- · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCI)

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Cool endangered receptacles with water spray.

#### **SECTION 6: Accidental release measures**

· 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

Warm water

· 6.4 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.

(Contd. on page 5)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 4)

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with the eyes and skin.

Prevent formation of aerosols.

Wash hands before breaks and at the end of work.

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

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

Store away from foodstuffs.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: 7664-38-2 phosphoric acid		
	Short-term value: 2 mg/m³	
	Long-term value: 1 mg/m³	
PEL (USA)	Long-term value: 1 mg/m³	
REL (USA)	Short-term value: 3 mg/m³	
	Long-term value: 1 mg/m³	
TLV (USA)	Short-term value: 3 mg/m³	
	Long-term value: 1 mg/m³	
EL (Canada)	Short-term value: 3 mg/m³	
	Long-term value: 1 mg/m³	
EV (Canada)	Short-term value: 3 mg/m³	
,	Long-term value: 1 mg/m³	
144-62-7 oxa	lic acid	
IOELV (EU)	Long-term value: 1 mg/m³	
PEL (USA)	Long-term value: 1 mg/m³	
		(Contd. on page

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

	(Contd. of page 5)
REL (USA)	Short-term value: 2 mg/m³
	Long-term value: 1 mg/m³
TLV (USA)	Short-term value: 2 mg/m³
	Long-term value: 1 mg/m³
	NIC-oxalic acid, anhydrous and dihydrate
EL (Canada)	Short-term value: 2 mg/m³
	Long-term value: 1 mg/m³
EV (Canada)	Short-term value: 2 mg/m³
	Long-term value: 1 mg/m³
7647-01-0 hy	drochloric acid
IOELV (EU)	Short-term value: 15 mg/m³, 10 ppm
	Long-term value: 8 mg/m³, 5 ppm
PEL (USA)	Ceiling limit: 7 mg/m³, 5 ppm
REL (USA)	Ceiling limit: 7 mg/m³, 5 ppm
TLV (USA)	Ceiling limit: 2,98 mg/m³, 2 ppm
EL (Canada)	Ceiling limit: 2 ppm
EV (Canada)	Ceiling limit: 2 ppm
A 1 1141 1 1	formestion. The lists valid during the making ways used as basis

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Use only in well ventilated areas.

Clean skin thoroughly immediately after handling the product.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

· Protection of hands:



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

(Contd. on page 7)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 6)

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.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR Neoprene gloves PVC gloves

· Not suitable are gloves made of the following materials:

Leather gloves **PVA** aloves

· Eye protection:



Safety glasses

Goggles recommended during refilling

· Body protection: Acid resistant protective clothing

### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Appearance:

Form: Viscous Colour: Pink · Odour: Pleasant · Odour threshold: Not determined. · pH-value at 20 °C: 0,00 - 2,00

Change in condition

Melting point/Melting range: Not Determined. Boiling point/Boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gaseous): Not applicable.

Auto/Self-ignition temperature:

**Decomposition temperature:** Not determined.

· Self-igniting: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

(Contd. on page 8)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 7)

Upper: Not determined.

· Vapour pressure: Not determined.

· Density at 20 °C: 1,10 - 1,20 g/cm³

· Relative density Not determined.

· Vapour density Not determined.

· Evaporation rate Not determined.

· Solubility in / Miscibility with

water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

• 9.2 Other information No further relevant information available.

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with alkali (lyes).

Reacts with reducing agents.

Reacts with amines.

Reacts with metals forming hydrogen.

Develops corrosive gases/fumes.

- 10.4 Conditions to avoid Store away from oxidising agents.
- · 10.5 Incompatible materials:

Warning! Do not use together with other products. May release dangerous gases (chlorine).

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCI)

Phosphorus oxides (e.g. P2O5)

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Sensitisation: No sensitising effects known.

(Contd. on page 9)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

· Additional toxicological information:

(Contd. of page 8)

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: The product contains materials that are harmful to the environment.
- 12.2 Persistence and degradability A part of the components is biodegradable.
- 12.3 Bioaccumulative potential Does not accumulate in organisms.
- 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: After neutralisation a reduction of the harming action may be recognised
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

This statement was deduced from the properties of the single components.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

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

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Dilute concentrate with water and neutralize afterwards with suitable material (lime or chalk). The formed salts are inert and pose little hazard.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water only.

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 9)

### **SECTION 14: Transport information**

· 14.1 UN-Number

· DOT, ADR, IMDG, IATA UN3264

14.2 UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· **DOT, IATA** Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric

acid, Hydrochloric Acid)

· ADR 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (Phosphoric acid, Hydrochloric Acid)

IMDG CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

(Phosphoric acid, Hydrochloric Acid)

· 14.3 Transport hazard class(es)

· DOT



· Class 8 Corrosive substances.

· Label

· ADR



· Class 8 (C1) Corrosive substances.

· Label

· IMDG, IATA



· Class 8 Corrosive substances.

· Label

· 14.4 Packing group

· DOT, ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler):EMS Number:Segregation groupsAcids

(Contd. on page 11)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 10)

· 14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)Excepted quantities (EQ)5LCode: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· Transport category 3 · Tunnel restriction code E

· IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC,

N.O.S. (Phosphoric acid, Hydrochloric Acid), 8, III

## **SECTION 15: Regulatory information**

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

7647-01-0 hydrochloric acid

· Section 313 (Specific toxic chemical listings):

7664-38-2 phosphoric acid

7647-01-0 hydrochloric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 ethanol

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

64-17-5 ethanol

(Contd. on page 12)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

Carcinogenic Categories  EPA (Environmental Protection Agency)  None of the ingredients are listed.  IARC (International Agency for Research on Cancer)  7647-01-0   hydrochloric acid  TLV (Threshold Limit Value established by ACGIH)  7647-01-0   hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	3   A4
EPA (Environmental Protection Agency)     None of the ingredients are listed.      IARC (International Agency for Research on Cancer)     7647-01-0   hydrochloric acid      TLV (Threshold Limit Value established by ACGIH)     7647-01-0   hydrochloric acid      NIOSH-Ca (National Institute for Occupational Safety and Health)     None of the ingredients are listed.	
None of the ingredients are listed.  IARC (International Agency for Research on Cancer)  7647-01-0   hydrochloric acid  TLV (Threshold Limit Value established by ACGIH)  7647-01-0   hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	
IARC (International Agency for Research on Cancer)  7647-01-0   hydrochloric acid  TLV (Threshold Limit Value established by ACGIH)  7647-01-0   hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	
7647-01-0 hydrochloric acid  TLV (Threshold Limit Value established by ACGIH)  7647-01-0 hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	
TLV (Threshold Limit Value established by ACGIH)  7647-01-0   hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	
7647-01-0 hydrochloric acid  NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)  None of the ingredients are listed.	A4
None of the ingredients are listed.	
Operanda	
· Canada	
· Canadian Domestic Substances List (DSL)	
All ingredients are listed.	
· Canadian Ingredient Disclosure list (limit 0.1%)	
144-62-7 oxalic acid	
64-17-5 ethanol	
· Canadian Ingredient Disclosure list (limit 1%)	
7664-38-2 phosphoric acid	
7647-01-0 hydrochloric acid	

- · National regulations:
- Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- Substances of very high concern (SVHC) according to REACH, Article 57
- None of the ingredients are listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 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.

#### Relevant phrases

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.

R21/22 Harmful in contact with skin and if swallowed.

- R34 Causes burns.
- R37 Irritating to respiratory system.

(Contd. on page 13)

Printing date 19.12.2014 Revision: 19.12.2014

Trade name: Big K v.4

(Contd. of page 12)

Risk of serious damage to eyes. R41 **R50** Very toxic to aquatic organisms.

#### · 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

WHMIS: Workplace Hazardous Materials Information System (Canada)

VOC: Volatile Organic Compounds (USA, EU) Met. Corr.1: Corrosive to metals, Hazard Category 1

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

#### Sources

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