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# **Safety Data Sheet**

# according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: 04 April 2017 Revision: 04 April 2017

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

1.1 Product identifier

· Trade name: Big K v.5 · 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 (North America) +1 (813)248-0585 (International)

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

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

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

Met. Corr.1 H290 May be corrosive to metals.

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

Eye Dam. 1 H318 Causes serious eye damage.

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

The product is classified and labelled according to the Globally Harmonized System within the United States.

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

· Hazard pictograms



GHS05

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

phosphoric acid oxalic acid hydrochloric acid

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· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe mist/vapours/spray. P260 P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

P234 Keep only in original container.

P303+P361+P353 IF ON SKIN (or hair): 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.

Immediately call a POISON CENTER/doctor. P310

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse. P363

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

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

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

regulations.

· NFPA ratings (scale 0 - 4)



Health = 3 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3 Fire = 0 

- 2.3 Other hazards There are no other hazards not otherwise classified that have been identified.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.

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

· 3.2 Mixtures

· Components:

CAS: 7664-38-2 EINECS: 231-633-2

Index number: 015-011-00-6

Reg.nr.: 01-2119485924-24-XXXX

phosphoric acid

Skin Corr. 1B, H314

10-25%

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		rom page 2)
CAS: 7647-01-0	hydrochloric acid	<5%
EINECS: 231-595-7 Index number: 017-002-00-2	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318	
Reg.nr.: 01-2119484862-27-XXXX	<b>V</b>	
CAS: 68131-39-5	alcohols, C12-15, ethoxylated	<5%
NLP: 500-195-7	Aquatic Acute 1, H400	
Reg.nr.: 01-2119488720-33-XXXX	•	
CAS: 144-62-7	oxalic acid	<5%
EINECS: 205-634-3 Index number: 607-006-00-8	Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312	

### Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

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

### 4.1 Description of first aid measures

#### · 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 remove any clothing soiled by the product.

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.

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

Gastric or intestinal disorders.

Coughing

Breathing difficulty

Strong irritant with the danger of severe eye injury.

- · **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.

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

### 5.1 Extinguishing media

· Suitable extinguishing agents:

The product is not flammable.

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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 6.3 Methods and material for containment and cleaning up

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

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.

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

### · 7.1 Precautions for safe handling

Open and handle receptacle with care.

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.

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Keep out of reach of children.

- · 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.

<b>SECTION 8: Exposure</b>	controls	/personal	protection

### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:		
7664-38-2 phosp	7664-38-2 phosphoric acid	
IOELV (EU)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³	
AGW (Germany)	Long-term value: 2 E mg/m³ 2(I);DFG, EU, AGS, Y	
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	
7647-01-0 hydro	chloric acid	
IOELV (EU)	Short-term value: 15 mg/m³, 10 ppm Long-term value: 8 mg/m³, 5 ppm	
AGW (Germany)	Long-term value: 3 mg/m³, 2 ppm 2(I);DFG, EU, Y	
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	
144-62-7 oxalic acid		
IOELV (EU)	Long-term value: 1 mg/m³	
AGW (Germany)	Long-term value: 1 E mg/m³ 1(I);H, EU, 13	
	(Cont'd. on page 6)	

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		(Cont'd. from page 5)
PEL (USA)	Long-term value: 1 mg/m³	
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 anhydrous and dihydrate	

- 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.

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** gloves

· 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
- Appearance

Form: Viscous

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		(Cont'd. from page 6)
Colour:	Pink	
· Odour:	Pleasant	
· Odour threshold:	Not determined.	
· pH-value:	0.00 - 2.00	
· Melting point/freezing point:	Not determined.	
· Initial boiling point and boiling range:	: Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not applicable.	
· Auto/Self-ignition temperature:		
Decomposition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
· Oxidising properties	Non-oxidising.	
· Vapour pressure:	Not determined.	
· Density:		
Relative density:	1.1-1.2	
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 No further relevant information available.
- 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.

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Develops corrosive gases/fumes.

- · 10.4 Conditions to avoid Excessive heat.
- 10.5 Incompatible materials

Alkalis

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: Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

144-62-7 oxalic acid

Oral LD50 375 mg/kg (rat)

- Primary irritant effect
- · Skin corrosion/irritation:

Causes severe skin burns and eye damage.

· Serious eye damage/irritation:

Causes serious eve damage.

- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable routes of exposure:

Eye contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · **Aspiration hazard:** Based on available data, the classification criteria are not met.

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### **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:

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

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

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

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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

SECTION 14: Transport information	
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN3264
· 14.2 UN proper shipping name · DOT, IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric acid, Hydrochloric acid)
	(Cont'd. on page 10)

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· ADR, IMDG	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Hydrochloric acid)
14.3 Transport hazard class(es)	
DOT	
COFFOSIVE CONTROLLE	
· Class	8 Corrosive substances.
· Label	8
· ADR	
· Class	8 (C1) Corrosive substances.
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
·Label	8
· 14.4 Packing group · DOT, ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Acids
14.7 Transport in bulk according to Annex of Marpol and the IBC Code	II Not applicable.
· Transport/Additional information:	
· DOT	
	) kg gross and inner packagings less than 5 L each.  (Cont'd on page 1)

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· ADR



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

·IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

·IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each /1 net

### **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):

7647-01-0 hydrochloric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

None of the ingredients are listed.

· 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:

None of the ingredients are listed.

- · Carcinogenic Categories
- · EPA (Environmental Protection Agency)

None of the ingredients are listed.

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· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

- · Other regulations, limitations and prohibitive 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.

H412 Harmful to aquatic life with long lasting effects.

### · Abbreviations and acronyms:

ADR: 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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

#### · Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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