# SAFETY DATA SHEET



### SYSTEM KLEEN 302

### Section 1. Identification

GHS product identifier

: SYSTEM KLEEN 302

Product code

: 00305470, 00305480

SDS#

: DUB00230

Other means of identification

: Not available.

Product type

: Liquid.

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

Identified uses

: Acidic foam cleaner-descaler

Supplier/Manufacturer

: DuBois Chemicals, Inc.

3630 E. Kemper Road

Cincinnati, Ohio 45241

Phone: 1-800-438-2647

Unit 6

8-2647 Oakville, Ontario, L6M 3E3 Canada

Phone: 1-866-861-3603

DuBois Chemicals Canada, Inc.

1155 North Service Road West

Emergency telephone

number

: 1-866-923-4919 (US and Canada) 01-651-523-0314 (Int'l and Mexico)

### Section 2. Hazards identification

**OSHA/HCS status** 

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: CORROSIVE TO METALS. - Category 1

SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

**GHS label elements** 

Hazard pictograms



Signal word

: Danger

**Hazard statements** 

: May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention

: Do not breathe dust/fume/gas/mist/vapors/spray. Wear protective gloves. Recommended: Chemical-resistant gloves. Wear eye or face protection:

Recommended: splash goggles. Wear protective clothing. Wash hands thoroughly

after handling. Keep only in original container.

Response

: Absorb spillage to prevent material damage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash

contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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

physician.

Storage

: Store locked up. Store in corrosive resistant container with a resistant inner liner.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

SYSTEM KLEEN 302

## Section 2. Hazards identification

Hazards not otherwise

; None known.

classified

# Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Phosphoric acid	30 - 40	7664-38-2
Alcohols, C12-13, ethoxylated	1 - 5	66455-14-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

: Causes serious eye damage. Eye contact

: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory Inhalation

system.

Skin contact : Causes severe burns.

: May cause burns to mouth, throat and stomach. Ingestion

#### Over-exposure signs/symptoms

: 11/12/2014. Version :2 Date of issue/Date of revision : 7/20/2015. Date of previous issue

### Section 4. First aid measures

Eye contact

: Adverse symptoms may include the following:

pain watering redness

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion

: Adverse symptoms may include the following:

stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

: In a fire or if heated, a pressure increase will occur and the container may burst.

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

- 0 0

Specific hazards arising from the chemical

: None known.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide phosphorus oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

## Section 6. Accidental release measures

#### Large spill

: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### Handling

: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

#### Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

Ingredient name	CAS#	ACGIH	OSHA	Mexico
Phosphoric acid	7664-38-2	TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes.	TWA: 1 mg/m³ 8 hours.	LMPE-PPT: 1 mg/m³ 8 hours.  LMPE-CT: 3 mg/m³ 15 minutes.

#### **Engineering measures**

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protection

Respiratory

: If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or airfed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: splash goggles

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# Section 8. Exposure controls/personal protection

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Personal protective equipment (Pictograms)



# Section 9. Physical and chemical properties

#### **Appearance**

Physical state

: Liquid.

Color

: Straw.

Odor

: Mild. acidic smell

Odor threshold

: Not available.

Hq

: 1

Melting point Boiling point

: Not available.

: Not available.

Flash point

: Closed cup: Not applicable.

Burning time Burning rate : Not applicable.

: Not applicable.

**Evaporation rate** 

: Not available.

Flammability (solid, gas)

: Not available.

Lower and upper explosive

: Not available

(flammable) limits

Vapor pressure

: Not available.

Vapor density

: Not available.

Relative density

: 124

Solubility

: Easily soluble in the following materials: cold water and hot water.

Solubility in water

: Not available.

Partition coefficient: n-

: Not available.

octanol/water

Auto-ignition temperature

: Not available.

**Decomposition temperature** 

: Not available.

Viscosity

: Not available.

**Elemental Phosphorus** 

: 11.9 %

**VOC** content

: Not available.

# Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

Incompatible materials

: Highly reactive or incompatible with the following materials: oxidizing materials and

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 11. Toxicological information

### Information on toxicological effects

Information on the likely

routes of exposure

Dermal contact. Eye contact. Inhalation.

Potential acute health effects

Eve contact

: Causes serious eye damage.

Inhalation

: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system.

Skin contact

Eye contact

: Causes severe burns.

Ingestion

: May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics : Adverse symptoms may include the following:

> pain watering redness

Inhalation

: No specific data.

Skin contact

: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion

: Adverse symptoms may include the following:

stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

6/8 :11/12/2014. Version Date of previous issue Date of issue/Date of revision : 7/20/2015.

# Section 11. Toxicological information

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### **Acute toxicity estimates**

Route	ATE value
Oral	3333.3 mg/kg

## Section 12. Ecological information

**Ecotoxicity** 

: Not available.

**Aquatic ecotoxicity** 

Not available.

# Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification

: D002 [Corrosive]

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# Section 14. Transport information

IATA/IMDG/DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information.

## Section 15. Regulatory information

U.S. Federal regulations

: TSCA 12(b) one-time export: No products were found.

TSCA 12(b) annual export notification: No products were found.

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: Phosphoric acid

CERCLA: Hazardous substances.: Phosphoric acid: 5000 lbs. (2270 kg);

**EPA Registration Number** 

: Not available.

Clean Air Act Section 112

: Not listed

(b) Hazardous Air Pollutants (HAPs)

SARA 302/304

### Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SYSTEM KLEEN 302

# Section 15. Regulatory information

SARA 311/312

Classification : Immediate (acute) health hazard

State regulations

Massachusetts : The following components are listed: PHOSPHORIC ACID

New York : The following components are listed: Phosphoric acid

New Jersey : The following components are listed: PHOSPHORIC ACID

Pennsylvania : The following components are listed: PHOSPHORIC ACID

California Prop. 65

Not available.

Canada

<u>Canadian lists</u>

Canadian NPRI : The following components are listed: Phosphorus (total)

Canada inventory : All components are listed or exempted.

Canadian PCP/DIN Number : Not available.

International regulations

international lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted. Malaysia inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

## Section 16. Other information

<u>History</u>

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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