# SAFETY DATA SHEET



AC-55-5

## Section 1. Chemical product and company identification

Product name : AC-55-5

Recommended use and

restrictions

: Heavy duty cleaner

Use only for the purpose on the product label.

Product dilution information : Up to 3 oz/gal or 23.4 mL/L in water

Supplier's information : Ecolab Inc. Food & Beverage Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-392-3392

**Code** : 922321

Date of issue : 11 Mar 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

## Section 2. Hazards identification

**Product AS SOLD** 

GHS Classification : CORROSIVE TO METALS - Category 1

SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

AQUATIC TOXICITY (ACUTE) - Category 3

**GHS label elements** 

Signal word : Danger

Symbol :

**Hazard statements**: May be corrosive to metals.

Causes severe skin burns and eye damage.

Harmful to aquatic life.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products - will cause chlorine gas.

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

**Product AT USE DILUTION** 

SKIN CORROSION/IRRITATION - Category

1

SERIOUS EYE DAMAGE/ EYE IRRITATION

- Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

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

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## Section 2. Hazards identification

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 in corrosive resistant container with a

resistant inner liner.

**Disposal**: See section 13 for waste disposal information.

Other hazards : None known.

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.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product AS SOLD** 

Hazardous ingredients Concentration Range (%) CAS number

 nitric acid
 38
 7697-37-2

 PHOSPHORIC ACID
 2
 7664-38-2

### **Product AT USE DILUTION**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

### Section 4. First aid measures

### **Product AS SOLD**

Eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention

immediately.

**Skin contact**: Take off immediately all contaminated clothing.

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation**: Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention immediately.

**Ingestion**: Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

### **Product AT USE DILUTION**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get

medical attention immediately.

Take off immediately all contaminated

clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention immediately.

Get medical attention immediately. Rinse mouth. Do not induce vomiting.

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated

clothing thoroughly with water before removing it, or wear gloves.

**Notes to physician**: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

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# Section 5. Fire-fighting measures

**Product AS SOLD** 

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: nitrogen oxides

phosphorus oxides

Specific fire-fighting methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

### Section 6. Accidental release measures

### **Product AS SOLD**

# Personal precautions

: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Environmental precautions Methods for cleaning up

- : Avoid contact of spilled material and runoff with soil and surface waterways.
- : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

### **Product AT USE DILUTION**

Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Avoid contact of spilled material and runoff with soil and surface waterways.

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

# Section 7. Handling and storage

#### **Product AS SOLD**

### Handling

: Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Do not mix with bleach or other chlorinated products will cause chlorine gas.

### Storage

: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: -30 and 45°C

### **Product AT USE DILUTION**

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

## Section 8. Exposure controls/personal protection

### **Control parameters**

Ingredient name	Exposure limits
nitric acid	ACGIH TLV (United States, 3/2012).  STEL: 10 mg/m³ 15 minutes.  STEL: 4 ppm 15 minutes.  TWA: 5.2 mg/m³ 8 hours.  TWA: 2 ppm 8 hours.  OSHA PEL (United States, 6/2010).  TWA: 5 mg/m³ 8 hours.  TWA: 2 ppm 8 hours.  NIOSH REL (United States, 6/2009).  TWA: 2 ppm 10 hours.  TWA: 5 mg/m³ 10 hours.  STEL: 4 ppm 15 minutes.  STEL: 10 mg/m³ 15 minutes.
PHOSPHORIC ACID	ACGIH TLV (United States, 3/2012).  STEL: 3 mg/m³ 15 minutes.  TWA: 1 mg/m³ 8 hours.  OSHA PEL (United States, 6/2010).  TWA: 1 mg/m³ 8 hours.  NIOSH REL (United States, 6/2009).  TWA: 1 mg/m³ 10 hours.  STEL: 3 mg/m³ 15 minutes.

### **Product AS SOLD**

# Appropriate engineering controls

: Use only with adequate ventilation. 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### **Personal protection**

Eye protection

 Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hand protection Skin protection : Use chemical-resistant, impervious gloves.

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

# Product AT USE DILUTION

Use only with adequate ventilation. 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Use chemical-resistant, impervious gloves.

Use synthetic apron, other protective equipment as necessary to prevent skin contact.

A respirator is not needed under normal and intended conditions of product use.

: 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.

**Product AT USE DILUTION** 

Liquid.

Colorless Odorless

1 to 1.8 > 100°C

# Section 9. Physical and chemical properties

**Product AS SOLD** 

Physical state : Liquid.

Color : Colorless
Odor : Pungent

**pH** : 0.9 to 1.1 (100%)

Flash point : > 100°C

Product does not support combustion.

**Explosion limits**: Not available. **Flammability (solid,**: Not available.

gas)

Melting point: Not available.Boiling point: >100°C (>212°F)Evaporation rate: Not available.

(butyl acetate = 1)

Vapor pressure : Not available.
Vapor density : Not available.

**Relative density** : 1.244 to 1.254 (Water = 1)

**Solubility** : Easily soluble in the following materials: cold

water and hot water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition

: Not available.

temperature

Decomposition temperature

: Not available.

Odor threshold : Not available.

Viscosity : Not available.

## Section 10. Stability and reactivity

**Product AS SOLD** 

**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.

Materials to avoid : Extremely reactive or incompatible with the following materials: alkalis.

Reactive or incompatible with the following materials: organic materials, metals and

moisture.

Do not mix with bleach or other chlorinated products - will cause chlorine gas.

Hazardous decomposition

products

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

should not be produced.

## **Section 11. Toxicological information**

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

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# Section 11. Toxicological information

**Product AS SOLD** 

**Symptoms** 

**Eye contact**: Adverse symptoms may include the following:

watering redness

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Inhalation** : Adverse symptoms may include the following:

coughing

Respiratory tract irritation

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Acute toxicity** 

**Eye contact** : Causes serious eye damage.

**Skin contact**: Causes severe burns.

**Inhalation**: May cause respiratory irritation.

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

**Product AT USE DILUTION** 

Adverse symptoms may include the following:

watering redness

Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Adverse symptoms may include the following:

stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and

stomach.

**Toxicity data** 

Product/ingredient nameResultSpeciesDosephosphoric acidLC50 Inhalation DustsRat0.962 mg/l

and mists

LD50 Dermal Rat >2000 mg/kg LD50 Oral Rat >2000 mg/kg

**Chronic toxicity** 

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.

## Section 12. Ecological information

**Product AS SOLD** 

**Ecotoxicity** : This material is harmful to aquatic life.

**Aquatic and terrestrial toxicity** 

Product/ingredient nameResultSpeciesExposurenitric acid<br/>phosphoric acidAcute LC50 72 mg/l<br/>Acute LC50 75.1 mg/lFish96 hours

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

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## Section 13. Disposal considerations

### **Product AS SOLD**

**Disposal methods**: Avoid disposal. Attempt to use product

completely in accordance with intended use.

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

completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws

Avoid disposal. Attempt to use product

and regulations.

**Product AT USE DILUTION** 

RCRA classification : Unused product is D002 (Corrosive)

## **Section 14. Transport information**

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification UN2031

DOT Proper shipping name NITRIC ACID

Class 8
Packing group II

IMO/IMDG

IMO/IMDG Classification UN2031

IMO/IMDG Proper shipping name NITRIC ACID solution

Class 8
Packing group II

For transport in bulk, see shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### **Product AS SOLD**

### U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted. SARA 302/304/311/312 extremely hazardous substances: nitric acid SARA 302/304 emergency planning and notification: nitric acid

SARA 313 Product name CAS number Concentration

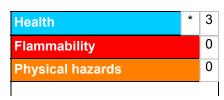
**Form R - Reporting** : nitric acid 7697-37-2 38.09

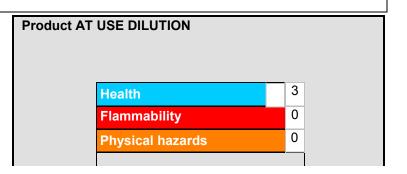
requirements

<u>California Prop. 65</u> : No listed substance

# **Section 16. Other information**

Product AS SOLD
Hazardous Material
Information System (U.S.A.)





# **Section 16. Other information**

National Fire Protection Association (U.S.A.)

Health 3 0 Instability/Reactivity
Special

Health 3 0 Instability/Reactivity
Special

Date of issue : 11 Mar 2013
Prepared by : Regulatory Affairs
1-800-352-5326

### **Notice to reader**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.