

NITRIC ACID 67%

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NITRIC ACID 67%

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company : Ecolab Inc.

1 Ecolab Place

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency health

information

: 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 01/04/2017

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Oxidizing liquids : Category 3
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS label elements

Hazard pictograms :





Signal Word : Danger

Hazard Statements : May intensify fire; oxidizer.

Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**

Keep away from heat. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Wash skin thoroughly after handling. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Immediately call a POISON

CENTER/doctor. 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. Wash

contaminated clothing before reuse. In case of fire: Use dry sand, dry

chemical or alcohol-resistant foam to extinguish.

Storage:

Store locked up.

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Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : Do not mix with bleach or other chlorinated products – will cause

chlorine gas.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical name CAS-No. Concentration (%)

nitric acid 7697-37-2 60 - 100

SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use

a mild soap if available. Wash clothing before reuse. Thoroughly clean

shoes before reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical attention

immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if

symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal

protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and

symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during fire

fighting

: Oxidizer. Contact with other material may cause fire.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

Special protective equipment

for fire-fighters

: Use personal protective equipment.

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Specific extinguishing methods

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not

breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Conditions for safe storage : Keep in a cool, we

: Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed.

Store in suitable labeled containers.

Storage temperature : -30 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
nitric acid	7697-37-2	TWA	2 ppm	ACGIH
		STEL	4 ppm	ACGIH
		STEL	4 ppm 10 mg/m3	NIOSH REL
		TWA	2 ppm 5 mg/m3	NIOSH REL
		TWA	2 ppm 5 mg/m3	OSHA Z1

Engineering measures

: Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

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Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

: Personal protective equipment comprising: suitable protective gloves, Skin protection

safety goggles and protective clothing

: When workers are facing concentrations above the exposure limit they Respiratory protection

must use appropriate certified respirators.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

> practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : clear, light yellow

Odor : pungent pΗ : 1.0, 100 %

Flash point Not applicable, Does not sustain combustion.

Odor Threshold : No data available Melting point/freezing point : No data available

Initial boiling point and

boiling range

: > 100 °C

Evaporation rate : No data available Flammability (solid, gas) : No data available Upper explosion limit : No data available Lower explosion limit : No data available : No data available Vapor pressure Relative vapor density : No data available

Relative density : 1.38 - 1.42

Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available Thermal decomposition : No data available : No data available Viscosity, kinematic Explosive properties : No data available

Oxidizing properties : yes

Molecular weight : No data available

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VOC : No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Do not mix with bleach or other chlorinated products - will cause

chlorine gas.

Conditions to avoid : None known.

Incompatible materials : Combustible material

Bases

Strong oxidizing agents

Metals

Reducing agents

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

: Corrosion, Abdominal pain Ingestion

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : No data available Acute inhalation toxicity : No data available : No data available Acute dermal toxicity : No data available Skin corrosion/irritation

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Serious eye damage/eye

irritation

: No data available

Respiratory or skin

sensitization

: No data available

Carcinogenicity : No data available

Reproductive effects : No data available

Germ cell mutagenicity : No data available

Teratogenicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration toxicity : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : No data available : No data available Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to fish : nitric acid

96 h LC50: 72 mg/l

Persistence and degradability

Not applicable - inorganic

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or

> used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste

disposal facility.

Disposal considerations Dispose of as unused product. Empty containers should be taken to

> an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and

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federal regulations.

RCRA - Resource Conservation and Recovery

Authorization Act Hazardous

waste

: D002 (Corrosive)

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 2031

Description of the goods : Nitric acid

Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 2031

Description of the goods : NITRIC ACID

Class : 8
Packing group : II
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
nitric acid	7697-37-2	1000	1493

SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
nitric acid	7697-37-2	1000	1493

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established

by SARA Title III, Section 302:

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SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

nitric acid 7697-37-2 67 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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The ingredients of this product are reported in the following inventories:

United States TSCA Inventory:

On TSCA Inventory

Canadian Domestic Substances List (DSL):

All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS):

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances:

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC):

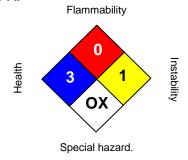
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory:

On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Issuing date : 01/04/2017

Version : 1.1

Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material

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designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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