

## **ULTRASIL 78**

# **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : ULTRASIL 78

Other means of identification : Not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.5 % - 1.0 %

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 : 11/01/2019

# **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

**Product AS SOLD** 

Skin corrosion : Category 1A Serious eye damage : Category 1

**Product AT USE DILUTION** 

Skin corrosion : Category 1A Serious eye damage : Category 1

#### **GHS** label elements

**Product AS SOLD** 

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:** 

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.

902103 1 / 11

Storage:

Store locked up. **Disposal:** 

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

**Product AT USE DILUTION** 

Hazard pictograms

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention**:

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rinsing. Immediately call a POISON CENTER/doctor. Wash

contaminated clothing before reuse.

Storage: Store locked up. Disposal:

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

**Product AS SOLD** 

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

chlorine gas.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product AS SOLD** 

Pure substance/mixture : Mixture

Chemical name CAS-No. Concentration (%)

nitric acid 7697-37-2 30 - 60 citric acid 77-92-9 1 - 5

**Product AT USE DILUTION** 

No hazardous ingredients

# **SECTION 4. FIRST AID MEASURES**

**Product AS SOLD** 

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

902103 2 / 11

# **ULTRASIL 78**

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.

**Product AT USE DILUTION** 

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

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

Continue rinsing. Get medical attention immediately.

shoes before reuse. 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

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.

# **SECTION 5. FIRE-FIGHTING MEASURES**

**Product AS SOLD** 

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

: Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

for fire-fighters

Special protective equipment : Use personal protective equipment.

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**

#### **Product AS SOLD**

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.

# **Product AT USE DILUTION**

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.

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# **SECTION 7. HANDLING AND STORAGE**

# **Product AS SOLD**

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 away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

#### **Product AT USE DILUTION**

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.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in

suitable labeled containers.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

902103 4 / 11

# Product AS SOLD Ingredients with workplace control parameters

Components	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

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.

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

safety goggles and protective clothing

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

must use appropriate certified respirators.

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

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.

**Product AT USE DILUTION** 

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

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.

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

safety goggles and protective clothing

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

must use appropriate certified respirators.

902103 5 / 11

Appearance

Color

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Product AS SOLD** 

**Product AT USE DILUTION** 

liquid

colorless

odorless

1.0 - 2.0

: liquid

: clear, colorless

Odor : odorless

рΗ : 0.5 - 1.0, (100 %)

Flash point : Not applicable 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) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1.203 - 1.213

Water solubility : soluble

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

octanol/water

: No data available

: No data available

Autoignition temperature : No data available

: No data available Thermal decomposition

Viscosity, kinematic

: No data available Explosive properties : No data available

Molecular weight : No data available

# **SECTION 10. STABILITY AND REACTIVITY**

**Product AS SOLD** 

Oxidizing properties

: No dangerous reaction known under conditions of normal use. Reactivity

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

VOC

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

chlorine gas.

Conditions to avoid : None known.

Incompatible materials : Bases

Metals

# **ULTRASIL 78**

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

Oxides of phosphorus

# **SECTION 11. TOXICOLOGICAL INFORMATION**

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

exposure

#### **Potential Health Effects**

**Product AS SOLD** 

: Causes serious eye damage. Eyes

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.

**Product AT USE DILUTION** 

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**

**Product AS SOLD** 

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Product AT USE DILUTION** 

Eye contact : Redness, Pain, Corrosion

: Redness, Pain, Corrosion Skin contact

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product AS SOLD** 

**Product** 

# **ULTRASIL 78**

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

irritation

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

Components

Acute oral toxicity

: citric acid

LD50 Rat: 11,700 mg/kg

# **SECTION 12. ECOLOGICAL INFORMATION**

# **Product AS SOLD Ecotoxicity**

**Environmental Effects** : This product has no known ecotoxicological effects.

**Product** 

Toxicity to fish : 96 h LC50: > 120 mg/l Toxicity to daphnia and other : 48 h EC50: > 120 mg/l

aquatic invertebrates

Toxicity to algae : No data available

Persistence and degradability

**Product AS SOLD** Readily biodegradable.

# **Product AT USE DILUTION**

Readily biodegradable.

#### Bioaccumulative potential

No data available

# Mobility in soil

No data available

# Other adverse effects

No data available

# **ULTRASIL 78**

# **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD** 

Disposal methods : 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

federal regulations.

RCRA - Resource

Conservation and Recovery Authorization Act Hazardous

: D002 (Corrosive)

waste

**Product AT USE DILUTION** 

Disposal methods : 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

federal regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

#### Product AS SOLD

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**

#### **Product AS SOLD**

# **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)

902103 9 / 11

# **ULTRASIL 78**

nitric acid	7697-37-2	1000	3317	
				i

# SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
nitric acid	7697-37-2	1000	3317

SARA 311/312 Hazards : Acute Health Hazard

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

by SARA Title III, Section 302:

nitric acid 7697-37-2 30.15 %

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

by SARA Title III, Section 313:

nitric acid 7697-37-2 30.15 %

# 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.

## California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation does not apply to this product.

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

## **United States TSCA Inventory:**

All substances listed as active on the 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:

not determined

## 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

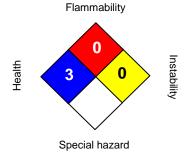
# Taiwan Chemical Substance Inventory (TCSI):

On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

902103 10 / 11

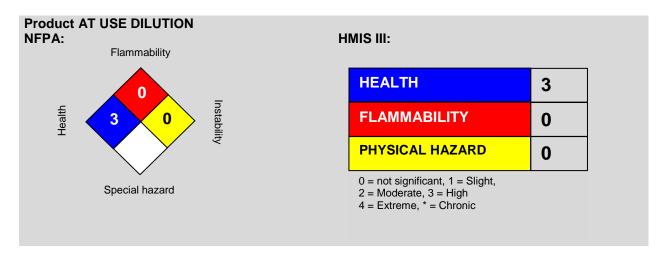
# Product AS SOLD NFPA:



#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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



Issuing date : 11/01/2019

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 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 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.

902103 11 / 11