

LIQUID TRI-DET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LIQUID TRI-DET

Other means of identification Not applicable

Recommended use Laundry detergent

Restrictions on use Reserved for industrial and professional use.

Product dilution information Product is sold ready to use.

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 12/19/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2 Serious eye damage : Category 1 Carcinogenicity Category 2 : Category 2 (Blood)

Specific target organ toxicity -

repeated exposure (Oral)

repeated exposure (Dermal)

Specific target organ toxicity - : Category 2 (Kidney)

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : Causes skin irritation.

> Causes serious eye damage. Suspected of causing cancer.

May cause damage to organs (Blood) through prolonged or repeated

exposure if swallowed.

May cause damage to organs (Kidney) through prolonged or repeated

exposure in contact with skin.

Precautionary Statements : Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face

protection. Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse

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cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/ attention. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Storage: Store locked up.

Disposal:

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

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

CAS-No.	Concentration (%)
68551-12-2	10 - 30
57-55-6	5 - 10
27177-77-1	5 - 10
68132-46-7	5 - 10
61790-64-5	5 - 10
102-71-6	1 - 5
111-42-2	1 - 5
7681-57-4	1 - 5
	57-55-6 27177-77-1 68132-46-7 61790-64-5 102-71-6 111-42-2

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. Get medical attention if irritation develops and

persists.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

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.

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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

Special protective equipment

for fire-fighters

: 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

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 get in eyes, on skin, or on clothing. Wash hands thoroughly

after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment

(PPE).

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m3	AIHA WEEL
triethanolamine	102-71-6	TWA	5 mg/m3	ACGIH
Diethanolamine	111-42-2	TWA (Inhalable fraction and vapor)	1 mg/m3	ACGIH
		TWA	3 ppm	NIOSH REL

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			15 mg/m3	
sodium metabisulphite	7681-57-4	TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	ACGIH

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 : No personal respiratory protective equipment normally required.

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

practice. 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 : Perfumes, fragrances

pH : 7.0 - 8.5, (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) : Not applicable

Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available

Relative density : 1.059 - 1.079
Water solubility : partly soluble

Solubility in other solvents
Partition coefficient: n-

Relative vapor density

octanol/water

No data availableNo data available

: No data available

Autoignition temperature : No data available

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Thermal decomposition : No data available Viscosity, kinematic : No data available Explosive properties : No data available Oxidizing properties : No data available Molecular weight : No data available VOC : No data available

SECTION 10. STABILITY AND REACTIVITY

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

: Stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : Acids

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be produced

such as: Carbon oxides

Nitrogen oxides (NOx)

Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

exposure

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

Potential Health Effects

: Causes serious eye damage. Eyes

Skin : Causes skin irritation.

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

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

Chronic Exposure : Suspected of causing cancer.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Irritation

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product

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Acute oral toxicity : Acute toxicity estimate : 4,289 mg/kg

Acute inhalation toxicity 4 h Acute toxicity estimate : > 200 mg/l

Test atmosphere: dust/mist

Acute dermal toxicity Acute toxicity estimate: > 5,000 mg/kg

: No data available Skin corrosion/irritation Serious eye damage/eye : No data available

irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

> Diethanolamine 111-42-2

OSHA No component of this product present at levels greater than or equal

to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

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 Toxicity to daphnia and other

aquatic invertebrates

: No data available

Toxicity to algae : No data available

Components

Toxicity to fish : alcohols, c12-16, ethoxylated

LC50: 1.5 mg/l

Propylene glycol

96 h LC50: > 10,000 mg/l

Potassium Dodecylbenzenesulphonate

96 h LC50 Fish: 3.2 mg/l

fatty acids, tall-oil, compds. with triethanolamine 96 h LC50 Pimephales promelas: 11,800 mg/l

triethanolamine

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96 h LC50: 11,800 mg/l

sodium metabisulphite 96 h LC50 Fish: 150 mg/l

Components

Toxicity to daphnia and other

aquatic invertebrates

: Propylene glycol

48 h EC50: 18,340 mg/l

fatty acids, tall-oil, compds. with triethanolamine

48 h EC50 Ceriodaphnia dubia (water flea): 609.98 mg/l

triethanolamine

48 h EC50: 609.88 mg/l

Diethanolamine

48 h EC50 Daphnia: 65.5 mg/l

Components

Toxicity to algae : Propylene glycol

96 h EC50: 19,000 mg/l

fatty acids, tall-oil, compds. with triethanolamine

72 h EC50 Desmodesmus subspicatus (green algae): 216 mg/l

triethanolamine

72 h EC50: > 100 mg/l

Persistence and degradability

No data available

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

federal regulations.

SECTION 14. TRANSPORT INFORMATION

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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)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Diethanolamine	111-42-2	100	7407

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

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

by SARA Title III, Section 313:

Diethanolamine 111-42-2 1 - 5 %

California Prop. 65

WARNING: This product can expose you to chemicals including Diethanolamine, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

This regulation applies to this product.

The regulation applies to the product			
Chemical Name	CAS-No.	Function	List(s)
water	7732-18-5	Diluent	Not Applicable
alcohols, c12-16, ethoxylated	68551-12-2	Cleaning Agent	Not Applicable
Propylene glycol	57-55-6	Solvent	12
Potassium	27177-77-1	Cleaning Agent	Not Applicable
Dodecylbenzenesulphonate			
fatty acids, tall-oil, compds. with	68132-46-7	Cleaning Agent	Not Applicable
triethanolamine			
Soap	61790-64-5	Cleaning Agent	Not Applicable
Organic salt	Withheld	Buffer	Not Applicable
Inorganic salt	Withheld	Cleaning Agent	Not Applicable
Organic salt	Withheld	Cleaning Agent	Not Applicable
triethanolamine	102-71-6	Buffer	Not Applicable

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Diethanolamine	111-42-2	Cleaning Agent	1, 9, 18, 20
sodium metabisulphite	7681-57-4	Buffer	Not Applicable
Fragrance Ingredient(s)	Not Available	Fragrance	Not Applicable
Stilbenzene derivatives	Withheld	Cleaning Agent	Not Applicable
Citronellol	106-22-9	Fragrance	FRA
Alpha-Isomethyl Ionone	127-51-5	Fragrance	FRA
subtilisin	9014-01-1	Cleaning Agent	8
Benzyl salicylate	118-58-1	Fragrance	FRA
2-(4-tert-Butylbenzyl) propionald-	80-54-6	Fragrance	FRA
hyd			

^{*}refer to ecolab.com/sds for electronic links to designated lists

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):

This product contains one or several components listed in the Canadian NDSL.

Australia Inventory of Chemical Substances (AICS):

not determined

New Zealand. Inventory of Chemical Substances:

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

Korea. Korean Existing Chemicals Inventory (KECI):

not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

not determined

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

not determined

Taiwan Chemical Substance Inventory (TCSI):

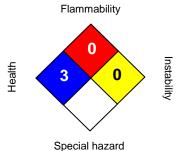
not determined

SECTION 16. OTHER INFORMATION

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NFPA:



HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

: 12/19/2019 Issuing date

Version : 2.0

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.