

Valiant Shield

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: Valiant Shield

Other means of identification

Not applicable

Recommended use

: Teat dip

Restrictions on use

Reserved for industrial and professional use.

Product dilution information

DILUTION DETAILED ON LABEL

Company

Ecolab Inc.

370 N. Wabasha Street

St. Paul, Minnesota USA 55102

1-800-352-5326

Emergency telephone

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

Issuing date

09/19/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Eye irritation

: Category 2B

Product AT USE DILUTION

Eye irritation

: Category 2B

GHS Label element

Product AS SOLD

Signal Word

: Warning

Hazard Statements

: Causes eye irritation.

Precautionary Statements

: Prevention:

Wash skin thoroughly after handling. Do not mix with bleach or other

chlorinated products - will cause chlorine gas.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/ attention.

Product AT USE DILUTION

Signal Word

: Warning

Hazard Statements

: Causes eye irritation.

Precautionary Statements

: Prevention:

Wash skin thoroughly after handling. Do not mix with bleach or other

chlorinated products - will cause chlorine gas.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical advice/ attention.

Valiant Shield

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical NameCAS-No.Concentration (%)Propylene glycol57-55-61 - 5lactic acid50-21-51 - 5

lactic acid 50-21-5 1 - 5 Urea 57-13-6 1 - 5

Product AT USE DILUTION

Chemical Name CAS-No. Concentration (%)

 Propylene glycol
 57-55-6
 1 - 5

 lactic acid
 50-21-5
 1 - 5

 Urea
 57-13-6
 1 - 5

 sodium chlorite
 7758-19-2
 0.1 - 1

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

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

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically.

Product AT USE DILUTION

In case of eye contact Rinse with plenty of water.

In case of skin contact Rinse with plenty of water.

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

If inhaled : Get medical attention if symptoms occur.

See toxicological information (Section 11)

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

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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

: 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 noncombustible 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

: 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 noncombustible 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

Product AS SOLD

Advice on safe handling

: Wash hands thoroughly after handling. Do not mix with bleach or other

chlorinated products – will cause chlorine gas.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 40 °C to 5 °C

Product AT USE DILUTION

Advice on safe handling

Wash hands thoroughly after handling. Do not mix with bleach or other

chlorinated products - will cause chlorine gas.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Valiant Shìeld

Product AS SOLD Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m3	WEEL
Urea	57-13-6	TWA	10 mg/m3	WEEL

: Good general ventilation should be sufficient to control worker Engineering measures

exposure to airborne contaminants.

Personal protective equipment

: No special protective equipment required. Eye protection

: No special protective equipment required. Hand protection

: No special protective equipment required. Skin protection

: No personal respiratory protective equipment normally required. Respiratory protection

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

practice.

Product AT USE DILUTION

Good general ventilation should be sufficient to control worker Engineering measures

exposure to airborne contaminants.

Personal protective equipment

No special protective equipment required. Eye protection

: No special protective equipment required. Hand protection

: No special protective equipment required. Skin protection

: No personal respiratory protective equipment normally required. Respiratory protection

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Product AT USE DILUTION Product AS SOLD

liquid : liquid **Appearance**

dark green : clear, dark green Color Chlorine slight Odor

3.0 - 3.2: 2.5 - 3.3, 100 % pΗ : Not applicable Flash point

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

Initial boiling point and boiling range

: > 100 °C

: No data available Evaporation rate Flammability (solid, gas) : No data available

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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 : 1.004 - 1.034

Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: noctanol/water

octanol/water

: No data available

Autoignition temperature : No data available
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

Product AS SOLD

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 : Bases

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

Eyes : Causes eye irritation.

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

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

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

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

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Product AT USE DILUTION

Eyes

Causes eye irritation.

Skin

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

Ingestion

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

Inhalation

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

Chronic Exposure

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

Experience with human exposure

Product AS SOLD

Eye contact

: Redness, Irritation

Skin contact

: No symptoms known or expected.

Ingestion

: No symptoms known or expected.

Inhalation

: No symptoms known or expected.

Product AT USE DILUTION

Eye contact

: Redness, Irritation

Skin contact

: No symptoms known or expected.

Ingestion

: No symptoms known or expected.

Inhalation

: No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity

: Acute toxicity estimate > 5,000 mg/kg

Acute inhalation toxicity

: No data available

Acute dermal toxicity

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

Skin corrosion/irritation

: No data available

Serious eye damage/eye

irritation

: Mild eye irritation

Respiratory or skin

sensitization

: No data available

Carcinogenicity

No data availableNo data available

Reproductive effects

No data available

Germ cell mutagenicity
Teratogenicity

: No data available

STOT-single exposure

: No data available

STOT-repeated exposure

: No data available

Aspiration toxicity

No data available

Ingredients

Valiant Shield

Acute inhalation toxicity

: Propylene glycol

4 h LC50 Rat: > 158.5 mg/l

lactic acid

4 h LC50 Rat: > 7.94 mg/l

4 h LC50 Rat: > 2.71 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects

: This product has no known ecotoxicological effects.

Product

Toxicity to fish

: No data available

Toxicity to daphnia and other

aquatic invertebrates

: No data available

Toxicity to algae

: No data available

Ingredients

Toxicity to fish

: Propylene glycol

96 h LC50: > 10,000 mg/l

lactic acid

96 h LC50 Fish: 130 mg/l

Urea

96 h LC50 Fish: 127.9 mg/l

Ingredients

Toxicity to daphnia and other : Propylene glycol

aquatic invertebrates

48 h EC50: 18,340 mg/l

Ingredients

Toxicity to algae

: Propylene glycol

96 h EC50: 19,000 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

Valiant Shield

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 re-

use empty containers.

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 re-

use empty containers.

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)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

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

Canadlan Domestic Substances List (DSL):

All components of this product are on the Canadian DSL.

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

Japan. ISHL - Inventory of Chemical Substances (METI):

not determined

Korea. Korean Existing Chemicals Inventory (KECI):

not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

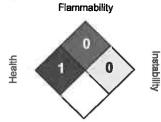
not determined

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

not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD NFPA:



Special hazard.

HMIS III:

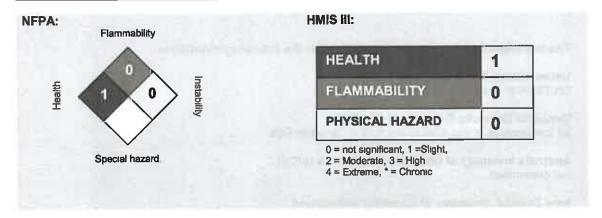
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Product AT USE DILUTION

Valiant Shield



Issuing date : 09/19/2014

Version : 1.0

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 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 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.