

# CHEM-STAR DISSOLVE GOLD

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

Product name CHEM-STAR DISSOLVE GOLD

Other means of identification not applicable

Product dilution information 0.3 % - 0.4 %

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 05/14/2014

#### **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 element**

#### **Product AS SOLD**

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

**Precautionary Statements** : Prevention:

> Do not breathe dust or mist. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Mixing this product with acid or ammonia releases chlorine gas.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/ physician. Wash

contaminated clothing before reuse.

Storage:

Store locked up. Disposal:

922440-04 1/11

### CHEM-STAR DISSOLVE GOLD

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:

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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 doctor/ physician. Wash

contaminated clothing 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**

**Product AS SOLD** 

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Sodium Carbonate	497-19-8	30 - 60
sodium hydroxide	1310-73-2	30 - 60
sodium metasilicate	6834-92-0	5 - 10
troclosene sodium, dihydrate	51580-86-0	1 - 5
oxirane, methyl-, polymer with oxirane	9003-11-6	0.1 - 1

### **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

shoes before reuse. Get medical attention immediately.

922440-04 2 / 11

#### CHEM-STAR DISSOLVE GOLD

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.

: No specific measures identified. Notes to physician

**Product AT USE DILUTION** 

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.

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

: Carbon oxides

for fire-fighters

Special protective equipment : Use personal protective equipment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. 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

922440-04 3/11

#### CHEM-STAR DISSOLVE GOLD

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.

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**

**Product AS SOLD** 

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do

not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Mixing this product with

acid or ammonia releases chlorine gas.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Keep container

tightly closed. Store in suitable labeled containers.

Storage temperature : -30 °C to 50 °C

**Product AT USE DILUTION** 

Advice on safe handling : Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do

not get in eyes, on skin, or on clothing. Wash hands thoroughly after

handling. Use only with adequate ventilation.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in

suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Product AS SOLD Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of	Permissible	Basis
-------------	---------	---------	-------------	-------

922440-04 4 / 11

# CHEM-STAR DISSOLVE GOLD

		exposure	concentration	
sodium hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1
chlorine	7782-50-5	TWA	0.5 ppm	ACGIH
		STEL	1 ppm	ACGIH
		Ceiling	0.5 ppm	NIOSH REL
			1.45 mg/m3	
		С	1 ppm	OSHA Z1
			3 mg/m3	

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

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 : Wash hands before breaks and immediately after handling the

product. 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 : Safety goggles

Face-shield

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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** 

Product AS SOLD Product AT USE DILUTION

922440-04 5 / 11

### CHEM-STAR DISSOLVE GOLD

liquid **Appearance** : powder

Color : orange light orange

Odor Chlorine slight

рΗ : 12.3.1% 11.8 - 12.8

Flash point not applicable, Does not sustain combustion.

: no data available Odor Threshold Melting point/freezing point : no data available Initial boiling point and : no data available

boiling range

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

Water solubility : soluble

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

octanol/water

Autoignition temperature : no data available

: no data available Thermal decomposition 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

Incompatible materials

reactions

: Mixing this product with acid or ammonia releases chlorine gas.

Conditions to avoid : None known.

: Metals Acids

Organic materials

Hazardous decomposition

products

Carbon oxides

nitrogen oxides (NOx)

Sodium oxides

# **SECTION 11. TOXICOLOGICAL INFORMATION**

922440-04 6/11

#### CHEM-STAR DISSOLVE GOLD

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

exposure

**Potential Health Effects** 

**Product AS SOLD** 

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.

**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

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product AS SOLD** 

Acute oral toxicity : Acute toxicity estimate : 2,959 mg/kg

Acute inhalation toxicity : no data available
Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available

922440-04 7 / 11

#### CHEM-STAR DISSOLVE GOLD

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 : no data available Teratogenicity

STOT-single exposure : no data available

STOT-repeated exposure : no data available

Aspiration toxicity : no data available

Ingredients

Acute inhalation toxicity : oxirane, methyl-, polymer with oxirane

4 h LC50 rat: 0.147 mg/l

Ingredients

Acute dermal toxicity : troclosene sodium, dihydrate

LD50 rat: > 5,000 mg/kg

# **SECTION 12. ECOLOGICAL INFORMATION**

**Product AS SOLD** 

**Ecotoxicity** 

**Environmental Effects** : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Product** 

: no data available Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : sodium metasilicate

96 h LC50 Fish: 210 mg/l

oxirane, methyl-, polymer with oxirane

96 h LC50 Fish: > 100 mg/l

Ingredients

Toxicity to daphnia and other : Sodium Carbonate

aquatic invertebrates

48 h EC50 Daphnia: 200 mg/l

sodium hydroxide 48 h EC50: 40 mg/l

troclosene sodium, dihydrate 48 h EC50 Daphnia: 0.196 mg/l

Persistence and degradability

no data available

922440-04 8/11

#### CHEM-STAR DISSOLVE GOLD

#### Bioaccumulative potential

no data available

#### Mobility in soil

no data available

#### Other adverse effects

no data available

### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product AS SOLD** 

Disposal methods : The product should not be allowed to enter drains, water courses or

the soil. 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)

UN number : 3262

Description of the goods : Corrosive solid, basic, inorganic, n.o.s.

(troclosene sodium, dihydrate, sodium hydroxide)

Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 3262

Description of the goods : CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

(troclosene sodium, dihydrate, sodium hydroxide)

Class : 8
Packing group : II
Marine pollutant : yes

922440-04 9 / 11

#### CHEM-STAR DISSOLVE GOLD

#### **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**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ
			(lbs)
sodium hydroxide	1310-73-2	1000	2778

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

requirements of SARA Title III, Section 302.

SARA 313 : 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.

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

#### 1907/2006 (EU):

not determined

#### Switzerland. New notified substances and declared preparations :

The mixture contains substances listed on the Swiss Inventory not determined

#### **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:

not determined

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

not determined

#### Korea. Korean Existing Chemicals Inventory (KECI):

not determined

922440-04 10 / 11

### CHEM-STAR DISSOLVE GOLD

#### 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

#### **SECTION 16. OTHER INFORMATION**

# Product AS SOLD NFPA:

Flammability

Instability

Special hazard.

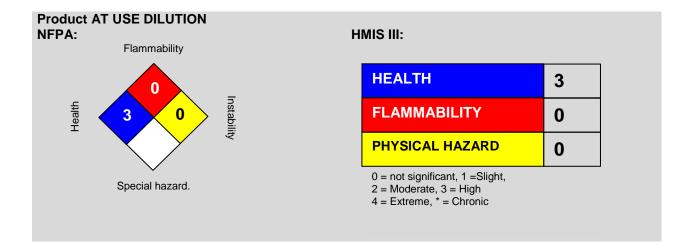
#### HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic



Issuing date : 05/14/2014

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.

922440-04 11 / 11