

## **GEMSTAR GEMINI**

### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GEMSTAR GEMINI

Other means of identification : Not applicable.

Recommended use : Floor care product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Co.

5105 Tomken Road

Mississauga, Ontario Canada L4W 2X5

1-800-352-5326

Emergency telephone

number

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

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### **Section: 2. HAZARDS IDENTIFICATION**

Physical and chemical

hazards

: Not flammable or combustible.

#### **Potential Health Effects**

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.

### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

ethanol, 2-(2-ethoxyethoxy)- 111-90-0 1 - 5

# Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

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.

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Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

## **Section: 5. FIREFIGHTING 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

firefighting.

: Not flammable or combustible.

Hazardous combustion

products

: Carbon oxides

Special protective equipment

for firefighters

: 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.

Risk of explosion. : Not available.

#### Section: 6. ACCIDENTAL RELEASE MEASURES

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 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 : Avoid contact with skin and eyes. 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.

Storage temperature : 10 °C to 45 °C

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Form of	Permissible	Basis
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		exposure	concentration	
ethanol, 2-(2-ethoxyethoxy)-	111-90-0	TWA	30 ppm 165 mg/m3	CA ON OEL
ethanol, 2-(2-ethoxyethoxy)-	111-90-0	TWA	25 ppm	WEEL

Engineering measures Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

### Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

: No personal respiratory protective equipment normally required. Respiratory protection

: Remove and wash contaminated clothing before re-use. Wash face, Hygiene measures

> hands and any exposed skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid Colour : white

Odour : acrylic-like рΗ : 8.6, 100 % Flash point : Not applicable. Odour Threshold : no data available Melting point/freezing point : no data available Initial boiling point and : no data available

boiling range

: no data available Evaporation rate Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available Vapour pressure no data available Relative vapour density : no data available

Relative density 1.025

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

octanol/water

: no data available Auto-ignition temperature Thermal decomposition : no data available Viscosity, kinematic : no data available Explosive properties : no data available

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Oxidizing properties : no data available

Molecular weight : no data available

VOC : no data available

## Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

: Carbon oxides

### **Section: 11. TOXICOLOGICAL INFORMATION**

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

exposure

**Potential Health Effects** 

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**

Eye contact : Redness, Irritation

Skin contact : No symptoms known or expected

Ingestion : No symptoms known or expected

Inhalation : No information available.

**Toxicity** 

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

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Serious eye damage/eye

irritation

: no data available

Respiratory or skin

Germ cell mutagenicity

sensitization

: no data available

Carcinogenicity : no data available

Reproductive effects : no data available : 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 : ethanol, 2-(2-ethoxyethoxy)-

LD50 rat: 6,300 mg/kg

Components

Acute inhalation toxicity : ethanol, 2-(2-ethoxyethoxy)-

4 h LC50 rat: > 5.24 mg/l

Components

Acute dermal toxicity : ethanol, 2-(2-ethoxyethoxy)-

LD50 rabbit: 9,143 mg/kg

## **Section: 12. ECOLOGICAL INFORMATION**

**Ecotoxicity** 

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

**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 : ethanol, 2-(2-ethoxyethoxy)-

96 h LC50 Fish: 6,010 mg/l

Persistence and degradability

no data available

**Bioaccumulative potential** 

no data available

Mobility in soil

no data available

Other adverse effects

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no data available

### Section: 13. DISPOSAL CONSIDERATIONS

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.

### **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 (TDG)

Not dangerous goods

## Sea Transport (IMDG/IMO)

Not dangerous goods

## **Section: 15. REGULATORY INFORMATION**

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

NPRI Components : 2-butoxyethanol

propan-2-ol butan-1-ol acrylic acid copper dinitrate

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

# 1907/2006 (EU):

not determined

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

Switzerland. Federal Health Agency, Giftliste 1 (Stoffe) 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. Industrial Chemical (Notification and Assessment) Act :

not determined

#### New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand:

not determined

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## 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):

On the inventory, or in compliance with the inventory

## Philippines Inventory of Chemicals and Chemical Substances (PICCS):

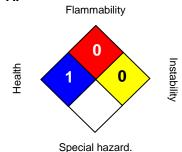
not determined

### China. Inventory of Existing Chemical Substances:

not determined

### **Section: 16. OTHER INFORMATION**

### NFPA:



### HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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Version : 1.0

Prepared by : Regulatory Affairs 1-800-352-5326

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.

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