SAFETY DATA SHEET



PROTOCOL 5000

Section 1. Chemical product and company identification

Product name : PROTOCOL 5000

Recommended use and : Cleaning product

restrictions

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information: Ecolab Inc. Textile Care Division

370 N. Wabasha Street St. Paul, MN 55102 1-800-553-8683

Code : 916455 **Date of issue** : **16 Sep 2013**

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Product AS SOLD

GHS Classification : FLAMMABLE LIQUIDS - Category 4

SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 2A

GHS label elements

Signal word : Warning

Symbol :

Hazard statements: Combustible liquid.

Causes serious eye irritation.

Precautionary statements

Prevention: Wear eye or face protection. Keep away from

flames and hot surfaces. - No smoking. Wash

hands thoroughly after handling.

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 attention.

Storage : Store in a well-ventilated place. Keep cool.Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

PROTOCOL 5000 16 Sep 2013

20 - 50

38096-68-3

Product AT USE DILUTION

Product is sold ready to use.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients Concentration Range (%) CAS number

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[

(methyloctadecyliminio)di-2,1-ethanediyl]bis[.omega.-

hydroxy-, methyl sulfate (1:1)

ISOPROPYL ALCOHOL 1 - 5 67-63-0

Product AT USE DILUTION

Hazardous ingredients Concentration Range (%) CAS number

Product is sold ready to use.

Section 4. First aid measures

Product AS SOLD

: Rinse cautiously with water for several minutes. Eye contact

Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention if

irritation persists.

: No known effect after skin contact. Rinse with Skin contact

water for a few minutes.

Inhalation : No special measures required. Treat

symptomatically.

: Get medical attention if symptoms occur. Ingestion

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

Specific hazards arising from the chemical

: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may

create fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

Specific fire-fighting

methods

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Page: 2/7

PROTOCOL 5000 16 Sep 2013

Section 6. Accidental release measures

Personal precautions

Product AS SOLD : Eliminate all ignition sources. Use personal protective equipment as required. Do not touch

or walk through spilled material.

Environmental precautions **Methods for** cleaning up

: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.

Product AT USE DILUTION

Product is sold ready to use.

Section 7. Handling and storage

Product AS SOLD

Handling : Avoid contact with eyes, skin and clothing. Keep

away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Use only with adequate ventilation. Wash thoroughly after

handling.

Storage : Keep out of reach of children. Keep container

tightly closed. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Store in a

segregated and approved area.

Product AT USE DILUTION

Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
ISOPROPYL ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours. OSHA PEL (United States, 6/2010). TWA: 980 mg/m³ 8 hours. TWA: 400 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 400 ppm 10 hours. TWA: 980 mg/m³ 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m³ 15 minutes.

Product AS SOLD

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protection

Product AT USE DILUTION

PROTOCOL 5000 16 Sep 2013

Section 8. Exposure controls/personal protection

Eye protection

: Wear eye protection.

Hand protection

Skin protection

: No protective equipment is needed under normal

use conditions.

: No protective equipment is needed under normal

use conditions.

Respiratory protection

: A respirator is not needed under normal and

intended conditions of product use.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing

before reusing.

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid. Color : Colorless Odor : Alcohol-like

На : 6.3 to 7.8 (100%) Flash point : 93 °C (Closed cup)

Explosion limits Flammability (solid,

: Not available. : Not available.

gas)

Melting point : Not available. **Boiling point** : <35°C (<95°F) **Evaporation rate** : Not available.

(butyl acetate = 1)

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 1.016 to 1.056 (Water = 1)

Solubility : Easily soluble in the following materials: hot water.

Partially soluble in the following materials: cold

water.

Partition coefficient: : Not available.

n-octanol/water

Auto-ignition

: Not available.

temperature

Decomposition : Not available.

temperature

Odor threshold : Not available.

Viscosity : Dynamic (room temperature): 75 mPa·s (75 cP)

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld.

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Not available. Materials to avoid

Product AT USE DILUTION

PROTOCOL 5000 16 Sep 2013

Section 10. Stability and reactivity

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Skin contact: No specific data.Inhalation: No specific data.Ingestion: No specific data.

Acute toxicity

Eye contact : Causes serious eye irritation.

Skin contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[LD50 Oral Rat 2150 mg/kg

(methyloctadecyliminio)di-2,1-ethanediyl]bis[.

omega.-hydroxy-, methyl sulfate (1:1)

propan-2-ol LC50 Inhalation Rat 30 mg/l

Vapor

LD50 Dermal Rabbit 12870 mg/kg LD50 Oral Rat 4710 mg/kg

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient nameResultSpeciesExposurePoly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[Acute LC50 11.82 mg/lFish96 hours

(methyloctadecyliminio)di-2,1-ethanediyl]bis[.

omega.-hydroxy-, methyl sulfate (1:1)

propan-2-ol Acute LC50 9640 mg/l Fish 96 hours

Other adverse effects: No known significant effects or critical hazards.

Product AT USE DILUTION

PROTOCOL 5000 16 Sep 2013

Section 13. Disposal considerations

Product AS SOLD

Disposal methods

 Avoid disposal. Attempt to use product completely in accordance with intended use.
 Disposal should be in accordance with applicable regional, national and local laws and regulations. **Product AT USE DILUTION**

Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification Not regulated.

IMO/IMDG

IMO/IMDG Classification Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting

requirements

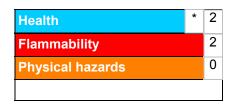
: No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

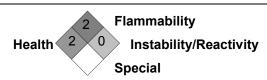
Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)

PROTOCOL 5000 16 Sep 2013

Section 16. Other information



Date of issue : 16 Sep 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.