

1. Identification of the product and company

Identification of the substance or preparation

Product name : **Farma50**
Product use : Acid foam cleaner.
Company : Ecolab Ltd.
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 Bangkok Thailand 10330
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EMERGENCY HEALTH INFORMATION : +1-803-656608
Outside United States and Canada CALL : +1 651-222-5352

2. Composition/information on ingredients

Ingredient name	EINECS	CAS	%	Classification
Phosphoric acid	231-633-2	7664-38-2	30-40	C; R34
Diethylene glycol butyl ether	203-961-6	112-34-5	1-5	C; R36
Alkyl dimethylamine oxide	273-281-2	68955-55-5	1-5	Xi; R41, R38 N; R50
See section 15 for the full text of the R Phrases declared above				

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : C; R34
Human health hazards : Cause burn.

See section 11 for more detailed information on health effects and symptoms.

4. First aid measures

Eye contact : In case of contact with eyes, rinse immediately with a copious amount of water. Obtain medical attention immediately
Skin Contact : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. If swallowed, rinse mouth with water (only if the person is conscious). Drink plenty of water for dilution. Obtain medical attention immediately.

Specific treatments : Not available.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

- Auto-ignition temperature** : Not available.
- Flash point** : > 100°C
- Flammable limits**
 - Upper** : Not available.
 - Lower** : Not available.
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂) and phosphorus(PO, PO₂).
- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical, or CO₂.
- 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.

6. Accidental release measures

- Personal Precautions** : Large spill and leak Immediately contact safety personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions and clean-up methods** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
SMALL SPILL Rinse with plenty of running water. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal

See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Do not get in eyes, on skin or on clothing. Do not breathe vapour or mist. After handling, always wash hands and protective equipment thoroughly with soap and water.
- Storage** : Keep container tightly closed.
Keep container in a cool, well-ventilated area.
Do not store above 40°C

8. Exposure controls/personal protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

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Personal protection

Respiratory protection : A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate and occupational exposure limits are exceeded.

Hand protection : Use chemical-resistant, impervious gloves.

Eye protection : Safety glasses. Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles..

Skin protection : Safety apron, Suitable protective footwear, other protective equipment as necessary to prevent skin contact.

Exposure controls

Ingredient name

Occupational exposure limits

Phosphoric acid

EU OEL (Europe, 2/2006).
short term: 2 mg/m³ 15 minute(s).
8 hours: 1 mg/m³ 8 hour(s).

2-(2-butoxyethoxy)ethanol

EU OEL (Europe, 2/2006).
short term: 101.2 mg/m³ 15 minute(s).
short term: 15 ppm 15 minute(s).
8 hours: 67.5 mg/m³ 8 hour(s).
8 hours: 10 ppm 8 hour(s).

9. Physical and chemical properties

General information

Appearance

Physical state : Liquid.
Colour : Clear brownish.
Odour : Odorless.

Important health, safety and environmental information

pH : 1.90-2.10 (1%)
Boiling point : > 100°C
Melting point : Not available.
Flash point : > 100°C
Flammability (solid, gas) : Not applicable.
Explosive properties : Not applicable.
Explosion Limits : Not applicable.
Oxidising properties : Not available.
Vapour pressure : Not applicable.
Relative density : 1.210-1.250 g/cm³(25 °C)
Solubility : Easily soluble in cold water, hot water.
Octanol/water partition coefficient : Not applicable.
Viscosity : Not available.
Vapour density : Not available.
Evaporation rate (butyl acetate = 1) : Not applicable.

10. Stability and reactivity

- Stability** : Stable under normal conditions.
Materials to avoid : Extremely reactive or incompatible with alkalis
 Reactive with organic materials, metals.
 Non reactive with acid.

11. Toxicological information
Toxicity data

Phosphoric acid	:	LD ₅₀ oral rat	1530 mg/kg
Diethylene glycol butyl ether	:	LD ₅₀ oral rat	5660 mg/kg
Alkylamineoxides	:	LD ₅₀ oral rat	400 mg/kg

Potential acute health effects.

- Eye contact** : Corrosive to eyes.
Skin Contact : Corrosive to the skin.
Inhalation : Corrosive to the respiratory system.
Ingestion : Causes burns.
Reproductive toxicity : No known significant effects or critical hazards.

12. Ecological information

- Products of degradation** : Decomposition products may include the following materials: carbon oxides (CO, CO₂), phosphates.
Persistence and degradability : No information.
Environmental precautions : If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range pH6...10, as pH variations could cause disorders in wastewater channels a biological sewage treatment plants. Do not dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
 The products will not bad affect with environment when use and treatment under direction recommended.

13. Disposal considerations

- Methods of disposal** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. For container must be triple rinse before disposal with local authorized company.

Consult your local or regional authorities.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label
ADR/RID Class	UN1805	Phosphoric acid, liquid	8	III	8
ADN Class	UN1805	Phosphoric acid, liquid	8	III	8
IMDG Class	UN1805	Phosphoric acid, liquid	8	III	8

Do not ship by air.

15. Regulatory information

Hazard symbol(s)



Corrosive

Contains

: Phosphoric acid

Risk Phrases

: R34- Causes burns.
R36- Irritating to eyes.
R38- Irritating to skin.
R50- Very toxic to aquatic organisms.

Safety Phrases

: S2- Keep out of the reach of children.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Type of product

: Type 3-Hazardous substance ACT B.E. 2535

16. Other information

Version

: 1

Date of issue

: 11 January 2011

Date of previous issue

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Prepared by

: Technical Center, Ecolab Thailand

Notice

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.