

SAFETY DATA SHEET

ECOLAB®

TOPAX 12

1. Chemical product and company identification

Chinese name : 脫普12
Product name : TOPAX 12
Other names : None.
Product code : 907774
Recommended use and restrictions : Cleaning product
Use only for the purpose on the product label.
Manufacturer/Supplier : Ecolab Limited
Address/Telephone : 6F, No. 13, Sec. 2, Peitou Rd., Peitou Dist.,
Taipei, 112, Taiwan, R.O.C.
(02) 2898-4800
Emergency telephone number : 1-651-222-5352 (in USA)

2. Hazards identification

GHS Classification : SKIN CORROSION/IRRITATION - Category 3
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
AQUATIC TOXICITY (ACUTE) - Category 3

GHS label elements

Symbol :



Signal word :

Warning

Hazard statements :

Causes mild skin irritation.
Causes serious eye irritation.
Harmful to aquatic life.

Precautionary statements

Prevention :

Wear eye or face protection. Avoid release to the environment. Wash hands thoroughly after handling.

Response :

If skin irritation occurs: Get medical attention.

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.

Other hazards :

None known.

3. Composition/information on ingredients

Nature of material : Mixture
Chemical properties : Cleaning product

Hazardous ingredients	Concentration Range (%)	CAS number
triphosphoric acid, pentapotassium salt	5 - 20	13845-36-8
2-(2-butoxyethoxy)ethanol	1 - 5	112-34-5
amines, coco alkyldimethyl, n-oxides	1 - 5	61788-90-7
alcohols, c12-18, ethoxylated	1 - 5	68213-23-0

3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

First aid measures

- Eye contact** : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
- Skin contact** : In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse. Remove contaminated clothing and shoes.
- Inhalation** : If inhaled, remove to fresh air.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Most important symptoms/effects, acute and delayed

- Eye contact** : Causes serious eye irritation.
- Skin contact** : Causes mild skin irritation.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Irritating to mouth, throat and stomach.

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 : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

5. Fire-fighting measures

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
phosphorus 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.
- 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** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : May be harmful to the environment if released in large quantities. Do not allow to enter drains or watercourses. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6. Accidental release measures

Methods for cleaning up : Place spilled material in an appropriate container for disposal. Contaminated absorbent material may pose the same hazard as the spilled product.

7. Handling and storage

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Do not store below the following temperature: 15°C

8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
None.	

Biological indicator : Not available.

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protection

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.

Eye protection : Wear eye protection.

Hand protection : No protective equipment is needed under normal use conditions.

Skin protection : No protective equipment is needed under normal use conditions.

Respiratory protection : A respirator is not needed under normal and intended conditions of product use.

9. Physical and chemical properties

Appearance

Physical state : Liquid. [Liquid.]

Color : Brown [Dark]

Odor : Faint odor

pH : 8 to 9 (100%)

Melting point : Not available.

Boiling point : >100°C (>212°F)

Flash point : > 100°C
Product does not support combustion.

Evaporation rate (butyl acetate = 1) : Not available.

Flammability (solid, gas) : Not available.

Explosion limits : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.06 to 1.08 (Water = 1)

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

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

10. Stability and reactivity

Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

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

Symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Skin contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: No specific data.
Ingestion	: No specific data.

Acute toxicity

Eye contact	: Causes serious eye irritation.
Skin contact	: Causes mild skin irritation.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: Irritating to mouth, throat and stomach.

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
triphosphoric acid, pentapotassium salt	LD50 Oral	Rat	>2000 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Mouse	6050 mg/kg	-
	LD50 Oral	Rat	6050 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Mouse	4500 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
amines, coco alkyldimethyl, n-oxides	LD50 Oral	Rat	>2000 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.

12. Ecological information

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name	Test	Result	Species	Exposure
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12. Ecological information

2-(2-butoxyethoxy)ethanol	Mortality	Acute LC50 1300 mg/L	Fish	96 hours
amines, coco alkyldimethyl, n-oxides	-	Acute EC50 8 mg/L	Daphnia	48 hours
	-	Acute EC50 4.4 mg/L	Daphnia	48 hours
	-	Acute EC50 <1 mg/L	Algae	72 hours
	-	Acute EC50 0.8 mg/L	Algae	72 hours
	-	Acute LC50 14 mg/L	Fish	96 hours
	-	Acute LC50 10 to 100 mg/L	Fish	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

<u>Product/ingredient name</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>
Not available.			

Bioaccumulative potential

<u>Product/ingredient name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
Not available.			

Mobility in soil : Not available.

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

13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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.

UN Classification : Not regulated.

Marine pollutant (Yes / No) : Not a pollutant.

Specific precautionary transport measures and conditions : -

See shipping documents for specific transportation information.

15. Regulatory information

TCSCA List of toxic chemicals

<u>Listed no.</u>	<u>Series no.</u>	<u>Product name</u>	<u>RQ</u>	<u>Class</u>
Not available.				
List of chemicals for which manufacturing or handling is defined as "work specially hazardous to health" : Not available.				
List of chemicals reputed to be a "threat of imminent danger" : Not available.				
LSHL Article 21 : Not available.				
Safety, health and environmental regulations specific for the product : Not available.				
References : -Regulation of Labeling and Hazard Communication of Dangerous and Harmful Materials. -Labor Safety and Health Act.				

16. Other information

History

Date of issue	: 5 April 2011
Date of previous issue	: No previous validation
Organization that prepared the SDS	: ECOLAB
Person who prepared the SDS	: Regulatory Affairs

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.