

P Foam-30

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Fire extinguishing agent

1.3. Details of the supplier of the safety data sheet

Supplier

Presto Brandsäkerhet AB

Street address

Värmbolsvägen 2, Box 315

64123 KATRINEHOLM

Sweden

Telephone

+46 (0)10-45 20 000

Email

info@presto.se

1.4. Emergency telephone number

NHS 111

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Specific Target Organ Toxicity — Repeated exposure, hazard category 2

Acute toxicity, oral, hazard category 4

Hazard statements

H302, H373

Description

For the complete meaning of H phrases mentioned in this section, see section 16.

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container to an approved waste disposal plant.

More information

Contains: Ethane -1,2 - diol

2.3. Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

The product does not contain any known or suspected endocrine disruptors.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Ethylene glycol	107-21-1 203-473-3 01-2119456816-28 603-027-00-1	30 - 50%	Acute Tox. 4 - oral, STOT RE 2	H302, H373 - -	-
Propan-2-ol	67-63-0 200-661-7 01-2119457558-25 603-117-00-0	0.1 - 3%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336 - -	-
Urea	57-13-6 200-315-5 - -	0.3 - 2%	-	- - -	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Get medical attention if symptoms occur.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

Take off all contaminated clothing immediately. Wash skin with mild soap and water. Get medical attention if symptoms occur.

Eye contact

Rinse carefully with lukewarm water for several minutes. If eye irritation persists, consult a specialist.

Ingestion

Drink water and, if possible, activated carbon. Induce vomiting, but only if victim is fully conscious. Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

May cause damage to organs through prolonged or repeated exposure.

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Inhalation

No known significant effects or critical hazards.

Skin contact

Can be absorbed through skin.

Eye contact

No known significant effects or critical hazards.

Ingestion

Harmful if swallowed. May cause kidney damage if swallowed. Symptoms may be delayed.

4.3. Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Contains ethylene glycol and / or diethylene glycol. May cause kidney damage if swallowed. Early treatment with ethanol can reverse the toxic effects of ethylene glycol as metabolic acidosis and kidney damage. 4-methylpyrazaole inhibits alcohol dehydrogenases and thereby prevent the formation of toxic metabolites from ethylene glycol, causing problems due to acidosis (such as seizures, kidney failure and coma) can be avoided.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Not applicable. The product is a fire extinguishing agent.

5.2. Special hazards arising from the substance or mixture

Burns during the development of smoke containing gases harmful to health (carbon monoxide and carbon dioxide) and, in the case of incomplete combustion, aldehydes and other toxic, health-hazardous, irritating or environmentally hazardous substances.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Protective measures are taken with regard to other material at the place of the fire. In the event of fire, wear self contained breathing apparatus. Wear full protective clothing. Use water spray or fog for cooling exposed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized access. Evacuate unnecessary personnel. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use chemical protection suit when cleaning up major emissions.

6.2. Environmental precautions

No data available.

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6.3. Methods and material for containment and cleaning up

Small spill: Wipe off with cloth or paper. After the material is collected: Wash down leftovers with plenty of water.

Large spill: Collect with inert absorbent material (eg sand, diatomaceous earth, sawdust or similar).

6.4. Reference to other sections

For personal protection see section 8 and for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Use personal protection equipment. Work to prevent spillage. If any spillage does occur, correct it immediately as instructed in Section 6 of this SDS.

General hygiene

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep in properly labelled containers. Keep container tightly closed. Store in original container.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

OEL

Ethane-1,2-diol

Long-term exposure limit values (LTEL)

52 mg/m³

20 ppm

Values for short-term exposure limit (STEL)

104 mg/m³

40 ppm

National occupational exposure limits

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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Ethane-1,2-diol, particulate	107-21-1 -	- 10	- -	EH40/2005	Sk - Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	2020
Ethane-1,2-diol, vapour	107-21-1 -	20 52	40 104	EH40/2005	-	2020
Propan-2-ol	67-63-0 -	400 999	500 1250	EH40/2005	-	2020

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
1,2-Etandiol (-/-)	DNEL	Chronic (long term) Dermal	106 mg/kg bw/day	Workers	Systemic
1,2-Etandiol (-/-)	DNEL	Acute (short term) Inhalation	35 mg/m ³	Workers	Systemic
1,2-Etandiol (-/-)	DNEL	Chronic (long term) Inhalation	35 mg/m ³	Workers	Local
1,2-Etandiol (-/-)	DNEL	Acute (short term) Inhalation	7 mg/m ³	Consumer	Systemic
Propan-2-ol (-/-)	DNEL	Chronic (long term) Inhalation	89 mg/m ³	Consumer	Systemic
Propan-2-ol (-/-)	DNEL	Chronic (long term) Dermal	888 mg/kg	Workers	Systemic
Propan-2-ol (-/-)	DNEL	Chronic (long term) Inhalation	500 mg/m ³	Workers	Systemic
Propan-2-ol (-/-)	DNEL	Chronic (long term) Oral	26 mg/kg	Consumer	Systemic
Propan-2-ol (-/-)	DNEL	Chronic (long term) Dermal	319 mg/kg	Consumer	Systemic
Urea (-/-)	DNEL	Chronic (long term) Inhalation	125 mg/m ³	Consumer	Systemic
Urea (-/-)	DNEL	Chronic (long term) Dermal	580 mg/kg bw/day	Workers	Systemic
Urea	DNEL	Acute (short term)	292 mg/m ³	Workers	Systemic

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Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
(-/-)		Inhalation			
Urea (-/-)	DNEL	Acute (short term) Dermal	580 mg/kg bw/day	Workers	Systemic
Urea (-/-)	DNEL	Chronic (long term) Inhalation	292 mg/m ³	Workers	Systemic
Urea (-/-)	DNEL	Acute (short term) Oral	42 mg/kg bw/day	Consumer	Systemic
Urea (-/-)	DNEL	Acute (short term) Inhalation	125 mg/m ³	Consumer	Systemic
Urea (-/-)	DNEL	Acute (short term) Dermal	580 mg/kg bw/day	Consumer	Systemic
Urea (-/-)	DNEL	Chronic (long term) Oral	42 mg/kg bw/day	Consumer	Systemic
Urea (-/-)	DNEL	Chronic (long term) Dermal	580 mg/kg bw/day	Consumer	Systemic
1,2-Etandiol (-/-)	DNEL	Chronic (long term) Inhalation	7 mg/m ³	Consumer	Local
1,2-Etandiol (-/-)	DNEL	Chronic (long term) Dermal	53 mg/kg bw/day	Consumer	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
1,2-Etandiol (-/-)	PNEC	Freshwater	10 mg/l
1,2-Etandiol (-/-)	PNEC	Sediment (freshwater)	20.9 mg/l
1,2-Etandiol (-/-)	PNEC	Marine water	1 mg/l
1,2-Etandiol (-/-)	PNEC	Soil	1.53 mg/l
Propan-2-ol (-/-)	PNEC	Freshwater	140.9 mg/l
Propan-2-ol (-/-)	PNEC	Sediment (freshwater)	552 mg/kg
Propan-2-ol (-/-)	PNEC	Marine water	140.9 mg/l
Propan-2-ol (-/-)	PNEC	Sediment (marine water)	552 mg/kg

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Propan-2-ol (-/-)	PNEC	Sewage Treatment Plant	2251 mg/l
Propan-2-ol (-/-)	PNEC	Soil	28 mg/kg
Urea (-/-)	PNEC	Freshwater	0.047 mg/l
1,2-Etandiol (-/-)	PNEC	Sediment (marine water)	3.7 mg/kg dwt
Propan-2-ol (-/-)	PNEC	Intermittent releases	140.9 mg/l

8.2. Exposure controls

Appropriate engineering controls

To prevent risks at work, the health hazards must be taken into account (see Sections 2, 3 and 11) with this product or one of its ingredients according to EU directives 89/391 and 98/24 as well as national health and safety legislation.

Ensure adequate ventilation.

Eye / face protection

Wear protective goggles if there is a risk of direct contact or splashes.

Hand protection

Wear protective gloves according to EN374.

Recommended materials:

Neoprene

NBR (Nitrile rubber)

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Prevent discharges to watercourses, wastewater or the ground.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colorless or slightly yellow

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Odour

Characteristic

Melting point / freezing point

-31 °C

Boiling point or initial boiling point and boiling range

No data available

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

> 60 °C

Auto-ignition temperature

No data available

Decomposition temperature

No data available

pH

5 - 8

Kinematic viscosity

No data available

Solubility

No data available

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

1.05 - 1.15

Relative vapour density

No data available

Particle characteristics

Not relevant.

9.2. Other information

Viscosity, dynamic: 3-6 cP.

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal usage and storage conditions.

10.3. Possibility of hazardous reactions

Reacts with strong oxidising agents.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

10.5. Incompatible materials

Avoid contact with oxidising agents.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Contains ethylene glycol and / or diethylene glycol. May cause kidney damage if swallowed.

Acute toxicity

Harmful if swallowed.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals
Propan-2-ol 67-63-0/200-661-7	LC50	72.6 mg/L	Inhalation	4 h	Rat
Propan-2-ol 67-63-0/200-661-7	LC50	64000 ppmV	Inhalation	4 h	Rat
Propan-2-ol 67-63-0/200-661-7	LC50	16000 ppmV	Inhalation	8 h	Rat
Propan-2-ol 67-63-0/200-661-7	LD50	5045 mg/kg	oral	24 h	Rat
Urea 57-13-6 200-315-5	LD50	8471 mg/kg	oral	24 h	Rat
1,2-ethandiol 107-21-1/203-473-3	LD50	4700 mg/kg	Oral	24 h	Rat
1,2-ethandiol 107-21-1/203-473-3	LD50	> 2000 mg/kg	Dermal	24 h	Rabbit

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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals
Propan-2-ol 67-63-0/200-661-7	LD50	15800 mg/kg	Dermal	24 h	Rabbit
Propan-2-ol 67-63-0/200-661-7	LD50	> 12800 mg/kg	Dermal	24 h	Rat
Urea 57-13-6 200-315-5	LD50	8200 mg/kg	Dermal	24 h	Rabbit
1,2-ethandiol 107-21-1/203-473-3	LC50	> 2.5 mg/L	Inhalation	4 h	Rat

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Can be absorbed through skin. Light irritation can occur during prolonged or repeated contact.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Light irritation can occur during prolonged or repeated contact.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. May cause kidney damage if swallowed.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The product does not contain any known or suspected endocrine disruptors.

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SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

The product is not classified as dangerous for the environment.

Toxicity

EC10 Bacterias 16 h: > 10000 mg/l (Urea)

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,2-ethandiol 107-21-1/203-473-3	LC50	> 18500 mg/L	-	Oncorhynchus mykiss (Rainbow trout)
1,2-ethandiol 107-21-1/203-473-3	LC50	72860 mg/l	96 h	Pimephales promelas (fathead minnow)
Propan-2-ol 67-63-0/200-661-7	LC50	9640 mg/L	96 h	Pimephales promelas (fathead minnow)
Propan-2-ol 67-63-0/200-661-7	LC50	1000 mg/l	96 h	-
Urea 57-13-6/200-315-5	LC50	> 6810 mg/l	96 h	Leuciscus idus (golden orfe)
1,2-ethandiol 107-21-1/203-473-3	NOEC	14692 mg/l	12d	Oncorhynchus mykiss (Rainbow trout)

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,2-ethandiol 107-21-1/203-473-3	EC50	1 - 7500 mg/L	96 h	-
Propan-2-ol 67-63-0/200-661-7	EC50	1 - 10 mg/l	24 h	-
Urea 57-13-6/200-315-5	EC10	47 mg/l	-	Ferskvannsalger

Acute crustacean toxicity

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
1,2-etandiol 107-21-1/203-473-3	EC50	> 100 mg/l	48 h	Daphnia magna (Big water flea)
1,2-etandiol 107-21-1/203-473-3	EC50	> 74000 mg/L	24 h	Daphnia magna (Big water flea)
Propan-2-ol 67-63-0/200-661-7	LC50	2285 mg/L	48 h	Daphnia magna (Big water flea)
Propan-2-ol 67-63-0/200-661-7	EC50	13299 mg/l	48 h	Daphnia magna (Big water flea)
Propan-2-ol 67-63-0/200-661-7	EC50	1 - 100 mg/l	24 h	Daphnia magna (Big water flea)
Urea 57-13-6/200-315-5	LC50	> 10000 mg/l	48 h	Daphnia magna (Big water flea)
1,2-etandiol 107-21-1/203-473-3	EC50	10000 mg/l	48h	Ceriodaphnia dubia
1,2-etandiol 107-21-1/203-473-3	NOEC	3469 mg/l	7d	Ceriodaphnia dubia

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

Mobility

The product is miscible with water and is therefore mobile in soil and water.

12.5. Results of PBT and vPvB assessment

The product is not and is not containing substances that are PBT or vPvB.

12.6. Endocrine disrupting properties

The product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects

No known effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Leftover, old or contaminated product is left for waste disposal.

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Packaging

Packaging that is not completely emptied may contain residues of hazardous substances and should therefore be disposed of as hazardous waste as above. Offer rinsed packaging material to local recycling facilities. In accordance with local and national regulations.

SECTION 14: Transport information

14.1. UN number

Not dangerous goods according to transport regulations.

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

No information available.

14.3. Transport hazard class(es)

Label

No information available.

14.4. Packing group

No information available.

14.5. Environmental hazards

The product is not classified as dangerous for the environment.

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Contains no substances from the candidate list REACH.

Contains no substances subject to restrictions according to Annex XVII of REACH.

Contains no substances listed in Annex XIV of REACH.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).

Directive 2008/98/EC of the European Parliament and of the Council on waste.

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National regulations

Observe the relevant local and international regulations.

EH40/2005 Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been performed.

SECTION 16: Other information

Abbreviations

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: very Persistent and very Bioaccumulative.

LD50: Lethal dose for 50 % of the test population (lethal median dose).

LC50: Deadly concentration for 50 % of a test population.

EC50: The concentration of a substance that affects 50 % of a population over a given period of time.

NOEC: No Observed Effect Concentration.

EC10: The concentration that causes the measured effect in 10 % of the test organisms

Phrase meaning

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

Flam. Liq. 2 - Flammable liquids, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

STOT RE 2 - Specific Target Organ Toxicity — Repeated exposure, hazard category 2

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.