

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Drying agent Premium  
UFI : NE00-V0E0-V00V-W7HK  
Product code : TP4510, TP455  
Product group : Blend  
Other means of identification :

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

##### Relevant identified uses

Main use category : Professional use, Industrial use  
Use of the substance/mixture : Drying agent for commercial kitchen dishwashers  
Use of the substance/mixture : Cleaning/washing agents and additives

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Tingstad Papper AB  
Marieholmsgatan 1-3  
415 02  
Göteborg  
Sverige  
T +46 31 707 20 00  
[order@tingstad.se](mailto:order@tingstad.se)

#### 1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 2 H315  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.

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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P321 - Specific treatment (see supplemental first aid instruction on this label).
Extra phrases	: For use in industrial installations or professional treatment only.

### Nordic countries regulation

#### Sweden

Swedish product registration number : 475273-9

### 2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium 2-ethylhexyl sulfate (126-92-1), Fatty Alcohol Alkoxylates 4, 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1), Ethanol (64-17-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium 2-ethylhexyl sulfate (126-92-1), Fatty Alcohol Alkoxylates 4, 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1), Ethanol (64-17-5)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Ethanol (64-17-5), 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1), Sodium 2-ethylhexyl sulfate (126-92-1)

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	CAS-No.: 64-17-5	10 – 40	Flam. Liq. 3, H226 Eye Irrit. 2, H319
Fatty Alcohol Alkoxylates 4	-	5 – 15	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Aquatic Chronic 3, H412
2-phosphonobutane-1,2,4-tricarboxylic acid	CAS-No.: 37971-36-1 EC-No.: 253-733-5 REACH-no: 012119436643-39	< 5	Met. Corr. 1, H290 Eye Irrit. 2, H319

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium 2-ethylhexyl sulfate	CAS-No.: 126-92-1 EC-No.: 204-812-8	≤ 1	Skin Irrit. 2, H315 Eye Dam. 1, H318

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Sodium 2-ethylhexyl sulfate	CAS-No.: 126-92-1 EC-No.: 204-812-8	(10 ≤ C < 20) Eye Irrit. 2; H319 (20 ≤ C < 100) Eye Dam. 1; H318

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Get medical advice/attention. Rinse mouth out with water.

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

Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: May cause eye irritation.

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

Drowsiness or feelings of fainting when inhaled.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO <sub>2</sub> ).
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### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Product is not explosive.

### 5.3. Advice for firefighters

Precautionary measures fire	: Eliminate all ignition sources if safe to do so. Keep container closed when not in use. Keep container tightly closed and away from heat, sparks and flame.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Wear fire/flame resistant/retardant clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid contact with skin and eyes.
No additional information available	

### 6.2. Environmental precautions

Inform the emergency services in the event of a major spill.

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### 6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustibile material, e.g.: sand, earth, vermiculite.

### 6.4. Reference to other sections

For further information refer to section 13. See Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Make sure the cap is screwed on before placing the can on the floor to avoid splashing.  
Hygiene measures : Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Do not expose to temperatures exceeding 50 °C/ 122 °F.  
Incompatible materials : Sources of ignition.  
Special rules on packaging : Keep only in original container.

### 7.3. Specific end use(s)

Drying agent for commercial kitchen dishwashers.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Personal protection equipment

##### Personal protective equipment:

Face shield. Wear respiratory protection. Use breathing equipment (SCBA). Wear eye protection.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Safety glasses. Face shield

#### Skin protection

##### Hand protection:

Wear protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves, Reusable gloves	Butyl rubber, Neoprene rubber (HNBR), Nitrile rubber (NBR)		0,3 mm		

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### Respiratory protection

#### Respiratory protection:

Wear suitable respiratory equipment in case of insufficient ventilation

Respiratory protection			
Device	Filter type	Condition	Standard
Full face mask	Type A - High-boiling (>65 °C) organic compounds		

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Appearance	: Liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: ≈ -18 °C
Boiling point	: ≈ 80 °C
Flammability	: Flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 30 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: ≈ 4
pH solution concentration	: 100 %
Viscosity, kinematic	: ≈ 5 mm <sup>2</sup> /s
Viscosity, dynamic	: ≈ 5 mPa·s
Solubility	: completely soluble. Ether: ≥ g/100ml
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: ≈ 1 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### Information with regard to physical hazard classes

Sensitivity to impact : > J

#### Other safety characteristics

Relative evaporation rate (ether=1) : <

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating may cause a fire.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Combustible materials.

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

LD50 dermal rat	> 1300 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 1.979 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation	: Causes skin irritation. pH: ≈ 4

#### Sodium 2-ethylhexyl sulfate (126-92-1)

pH	≈ 8
Serious eye damage/irritation	: Not classified pH: ≈ 4

#### Sodium 2-ethylhexyl sulfate (126-92-1)

pH	≈ 8
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Reproductive toxicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

#### Drying agent Premium

Viscosity, kinematic	≈ 5 mm <sup>2</sup> /s
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#### Sodium 2-ethylhexyl sulfate (126-92-1)

Viscosity, kinematic	≈ 5 mm <sup>2</sup> /s
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### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

LC50 - Fish [1]	> 1042 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	> 1081 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	140 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	329 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	104 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

#### 12.2. Persistence and degradability

##### Drying agent Premium

Persistence and degradability Biodegradability in water: no data available.

##### Sodium 2-ethylhexyl sulfate (126-92-1)

Persistence and degradability Not rapidly degradable

##### Fatty Alcohol Alkoxylates 4

Persistence and degradability Not rapidly degradable

##### 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

Persistence and degradability Not rapidly degradable

##### Ethanol (64-17-5)

Persistence and degradability Not rapidly degradable

#### 12.3. Bioaccumulative potential

##### Drying agent Premium

Bioaccumulative potential The product is not expected to bioaccumulate.

#### 12.4. Mobility in soil

##### Drying agent Premium

Ecology - soil The product is very mobile in the soil due to surface tension-reducing properties and low viscosity.

#### 12.5. Results of PBT and vPvB assessment

##### Drying agent Premium

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium 2-ethylhexyl sulfate (126-92-1), Fatty Alcohol Alkoxylates 4, 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1), Ethanol (64-17-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium 2-ethylhexyl sulfate (126-92-1), Fatty Alcohol Alkoxylates 4, 2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1), Ethanol (64-17-5)

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The product contains no hormone-disrupting raw materials.

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
European List of Waste (LoW, EC 2150/2002) : 20 01 29\* - detergents containing dangerous substances  
HP Code : HP3 - "Flammable:"  
– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;  
– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;  
– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;  
– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;  
– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;  
– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.  
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID


ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1987	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
ALCOHOLS, N.O.S.	Not applicable	Not applicable		
<b>Transport document description</b>				
UN 1987 ALCOHOLS, N.O.S. ( ), 3, II, (D/E)	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
3	Not applicable	Not applicable	Not applicable	Not applicable



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ADR	IMDG	IATA	ADN	RID
	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601, 640D
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	: 
Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15: Regulatory information

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

##### EU-Regulations

###### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

###### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

###### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

###### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

###### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

###### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### National regulations

###### Denmark

Class for fire hazard : Class II-1  
Store unit : 5 liter  
Classification remarks : R10 <H226;H315>; Emergency management guidelines for the storage of flammable liquids must be followed

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.  
Other information : The product complies with the Nordic Ecolabel.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3

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Full text of H- and EUH-statements:	
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.