

**PANTASTIC DISINFECTANT PK****Section: 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product name : PANTASTIC DISINFECTANT PK

Product code : 115963E

Use of the Substance/Mixture : Cleaner and disinfectant

Substance type: : Mixture

For professional users only.

Product dilution information : 0.5 % - 2.0 %

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

Identified uses : Biocide. Manual process
Dishwash product. Manual process
Biocide. Spray and rinse manual process

Recommended restrictions on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Ecolab Ltd.
PO Box 11; Winnington Avenue
Northwich, Cheshire, United Kingdom CW8 4DX
+ 44 (0)1606 74488
ccs@ecolab.com

1.4 Emergency telephone number

Emergency telephone number : Food & Beverage, Institutional, Agriculture, Textile Hygiene:
Northwich: +44 (0)1606 74488
Healthcare Leeds: +44 (0)113 232 2480
Healthcare Swansea: +44 (0)1252 717616

Poison Information Centre telephone number : Not Available

Date of Compilation/Revision : 03.09.2014
Version : 1.0

Section: 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification (REGULATION (EC) No 1272/2008)

Product AS SOLD

Serious eye damage/eye irritation , Category 1 H318
Acute aquatic toxicity , Category 1 H400

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Product AT USE DILUTION

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Product AS SOLD

Xi; IRRITANT

R36

N; DANGEROUS FOR THE ENVIRONMENT

R50

Product AT USE DILUTION

The product does not need to be labelled in accordance with EC directives or respective national laws.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Product AS SOLD

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H318
H400

Causes serious eye damage.
Very toxic to aquatic life.

Precautionary Statements

: **Prevention:**

P273

Avoid release to the environment.

P280e

Wear eye protection/face protection.

Response:

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

Didecyl Dimethyl Ammonium Chloride

Product AT USE DILUTION

Not a hazardous substance or mixture.

2.3 Other hazards

Product AS SOLD

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

PANTASTIC DISINFECTANT PK**Product AS SOLD****Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
Didecyl Dimethyl Ammonium Chloride	7173-51-5 230-525-2	C-Xn; R22- R34	Acute toxicityCategory 4; H302 Skin corrosionCategory 1B; H314	>= 2.5 - < 5
N,N-Bis(3- aminopropyl)lauryla mine	2372-82-9 219-145-8	Xn-C-N; R35- R50-R48/22- R22	Acute toxicityCategory 3; H301 Skin corrosionCategory 1A; H314 Serious eye damage/eye irritationCategory 1; H318 Specific target organ toxicity - repeated exposureCategory 2; H373 Acute aquatic toxicityCategory 1; H400	>= 3 - < 5
alanine, n,n- bis(carboxymethyl)-, trisodium salt	164462-16-2 01-0000016977-53	Xi; R36/38	Skin irritationCategory 2; H315 Eye irritationCategory 2; H319	>= 3 - < 5
Alkylamidopropylbet aines	61789-40-0 263-058-8 01-2119489410-39	Xi; R41	Serious eye damage/eye irritationCategory 1; H318	>= 3 - < 4
alcohol ethoxylate	68439-46-3	Xi; R38-R41	Acute toxicityCategory 4; H302 Skin irritationCategory 2; H315 Serious eye damage/eye irritationCategory 1; H318	>= 3 - < 5
WEL substance :				
ethanol	64-17-5 200-578-6 01-2119457610-43	F; R11	Flammable liquidsCategory 2; H225	>= 2.5 - < 5

Product AT USE DILUTION**Hazardous components**

Chemical Name	CAS-No. EC-No. REACH No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration: [%]
N-(3-aminopropyl)-N- dodecylpropane-1,3- diamine	2372-82-9 219-145-8	Xn-C-N; R35- R50-R48/22- R22	Acute toxicityCategory 3; H301 Skin corrosionCategory 1A; H314 Serious eye damage/eye irritationCategory 1; H318 Specific target organ toxicity - repeated exposureCategory 2; H373 Acute aquatic toxicityCategory 1; H400	>= 0.1 - < 0.25

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For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

Section: 4. FIRST AID MEASURES

4.1 Description of first aid measures

Product AS SOLD

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Product AT USE DILUTION

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

Product AS SOLD

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion : Decomposition products may include the following materials:

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products	Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus
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5.3 Advice for firefighters

Special protective equipment for firefighters	: Use personal protective equipment.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Product AS SOLD

Advice for non-emergency personnel	: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
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Advice for emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
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Product AT USE DILUTION

Advice for non-emergency personnel	: Refer to protective measures listed in sections 7 and 8.
Advice for emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

6.2 Environmental precautions

Product AS SOLD

Environmental precautions	: Do not allow contact with soil, surface or ground water.
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Product AT USE DILUTION

Environmental precautions	: No special environmental precautions required.
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6.3 Methods and materials for containment and cleaning up

Product AS SOLD

Methods for cleaning up	: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.
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Product AT USE DILUTION

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Methods for cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

6.4 Reference to other sections

See Section 1 for emergency contact information.
For personal protection see section 8.
See Section 13 for additional waste treatment information.

Section: 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Product AS SOLD

Advice on safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Advice on safe handling : Wash hands after handling. For personal protection see section 8.

Hygiene measures : Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Product AS SOLD

Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Requirements for storage areas and containers : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

7.3 Specific end uses

Product AS SOLD

Specific use(s) : Biocide. Manual process
Dishwash product. Manual process
Biocide. Spray and rinse manual process

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

PANTASTIC DISINFECTANT PK**Product AS SOLD**
Occupational Exposure Limits

CAS-No.	Components	Value type (Form of exposure)	Control parameters	Update	Basis
64-17-5	ethanol	TWA	1,000 ppm 1,920 mg/m ³	2005-04-06	UKCOSSTD

8.2 Exposure controls**Product AS SOLD**
Appropriate engineering controls

Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

Individual protection measures

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye/face protection (EN 166) : Safety goggles
Face-shield

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection (EN 14605) : No special protective equipment required.

Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Product AT USE DILUTION
Appropriate engineering controls

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands before breaks and immediately after handling the product.

Eye/face protection (EN 166) : No special protective equipment required.

Hand protection (EN 374) : No special protective equipment required.

Skin and body protection (EN : No special protective equipment required.

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14605)

Respiratory protection (EN 143, 14387) : None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements(89/656/EEC, 89/686/EEC), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Environmental exposure controls

General advice : Consider the provision of containment around storage vessels.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Colour	: yellow	colourless
Odour	: odourless	odourless
pH	: 8.7 - 9.3	8.8 - 9.4
Flash point	: Not applicable.	
Odour Threshold	: no data available	
Melting point/freezing point	: no data available	
Initial boiling point and boiling range	: no data available	
Evaporation rate	: no data available	
Flammability (solid, gas)	: no data available	
Upper explosion limit	: no data available	
Lower explosion limit	: no data available	
Vapour pressure	: no data available	
Relative vapour density	: no data available	
Relative density	: 1.009 - 1.019	
Water solubility	: no data available	
Solubility in other solvents	: no data available	
Partition coefficient: n-octanol/water	: no data available	
Auto-ignition temperature	: no data available	
Thermal decomposition	: no data available	
Viscosity, kinematic	: no data available	
Explosive properties	: no data available	
Oxidizing properties	: no data available	

9.2 Other information

no data available

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Section: 10. STABILITY AND REACTIVITY

Product AS SOLD

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NO_x)

Sulphur oxides

Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Product AS SOLD

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Toxicity

Acute oral toxicity : Acute toxicity estimate : > 2,000 mg/kg

Acute inhalation toxicity : There is no data available for this product.

Acute dermal toxicity : There is no data available for this product.

Skin corrosion/irritation : There is no data available for this product.

Serious eye damage/eye irritation : There is no data available for this product.

Respiratory or skin sensitization : There is no data available for this product.

Carcinogenicity : There is no data available for this product.

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Reproductive effects : There is no data available for this product.

Germ cell mutagenicity : There is no data available for this product.

Teratogenicity : There is no data available for this product.

STOT - single exposure : There is no data available for this product.

STOT - repeated exposure : There is no data available for this product.

Aspiration toxicity : There is no data available for this product.

Components

Acute oral toxicity : Didecyl Dimethyl Ammonium Chloride
LD50 rat: 1,150 mg/kg

N,N-Bis(3-aminopropyl)laurlyamine
LD50 rat: 261 mg/kg

alanine, n,n-bis(carboxymethyl)-, trisodium salt
LD50 rat: > 2,000 mg/kg

Alkylamidopropylbetaines
LD50 rat: 2,600 mg/kg

alcohol ethoxylate
LD50 rat: 1,400 mg/kg

ethanol
LD50 rat: 10,470 mg/kg

Components

Acute inhalation toxicity : Didecyl Dimethyl Ammonium Chloride
4 h LC50 rat: 0.07 mg/l

ethanol
4 h LC50 rat: 117 mg/l

Components

Acute dermal toxicity : Didecyl Dimethyl Ammonium Chloride
LD50 rabbit: 2,930 mg/kg

alanine, n,n-bis(carboxymethyl)-, trisodium salt
LD50 rat: > 4,000 mg/kg

alcohol ethoxylate
LD50 rat: > 5,000 mg/kg

ethanol
LD50 rabbit: 15,800 mg/kg

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.

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Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact	: Redness, Pain, Corrosion
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Section: 12. ECOLOGICAL INFORMATION

Product AS SOLD

12.1 Ecotoxicity

Environmental Effects	: Very toxic to aquatic life.
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Product

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available

Components

Toxicity to fish	: Didecyl Dimethyl Ammonium Chloride 96 h LC50 Fish : 1 mg/l alanine, n,n-bis(carboxymethyl)-, trisodium salt
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96 h LC50 Fish : > 200 mg/l

Alkylamidopropylbetaines
96 h LC50 Fish : 2 mg/l

alcohol ethoxylate
96 h LC50 Fish : 8.5 mg/l

ethanol
96 h LC50 Fish : 11,000 mg/l

Components

Toxicity to algae : N,N-Bis(3-aminopropyl)laurlyamine
72 h EC50: 0.014 mg/l

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with the European Directives on waste and hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.1 Waste treatment methods

Product AS SOLD

Product : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

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European Waste Catalogue : 200129* - detergents containing dangerous substances

Product AT USE DILUTION

Product : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

Product AS SOLD

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 3082

14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alkylamine(s), Alcohol ethoxylate)

14.3 Transport hazard class(es) : 9

14.4 Packing group : III

14.5 Environmental hazards : Yes

14.6 Special precautions for user : None

Air transport (IATA)

14.1 UN number : 3082

14.2 UN proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Alkylamine(s), Alcohol ethoxylate)

14.3 Transport hazard class(es) : 9

14.4 Packing group : III

14.5 Environmental hazards : Yes

14.6 Special precautions for user : None

Sea transport (IMDG/IMO)

14.1 UN number : 3082

14.2 UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Alkylamine(s), Alcohol ethoxylate)

14.3 Transport hazard class(es) : 9

14.4 Packing group : III

14.5 Environmental hazards : Yes

14.6 Special precautions for user : None

14.7 Transport in bulk : Not applicable.

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according to Annex II of
MARPOL 73/78 and the IBC
Code

Product AT USE DILUTION

Not intended for transport.

Section: 15. REGULATORY INFORMATION

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

according to Detergents : less than 5 %: Amphoteric surfactants, Non-ionic surfactants
Regulation EC 648/2004 Preservation agents:
Didecyl Dimethyl Ammonium Chloride

National Regulations

Take note of Dir 94/33/EC on the protection of young people at work.

Other regulations : The Chemicals (Hazard Information and Packaging for Supply)
Regulations.
The Control of Substances Hazardous to Health Regulations.
Health and Safety at Work Act.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

Section: 16. OTHER INFORMATION

Full text of R-Phrases

R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

Full text of other abbreviations

PANTASTIC DISINFECTANT PK

Prepared by : Regulatory Affairs

Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ANNEX: EXPOSURE SCENARIOS**DPD+ Substances:**

The following substances are the lead substances that contribute to the mixture Exposure Scenario according to the DPD+ Rule:

Route	Substance	CAS-No.	EINECS-No.
Ingestion	N,N-Bis(3-aminopropyl)laurlyamine	2372-82-9	219-145-8
Inhalation	N,N-Bis(3-aminopropyl)laurlyamine	2372-82-9	219-145-8
Dermal	N,N-Bis(3-aminopropyl)laurlyamine	2372-82-9	219-145-8
Eyes	N,N-Bis(3-aminopropyl)laurlyamine alcohol ethoxylate	2372-82-9 68439-46-3	219-145-8
aquatic environment	N,N-Bis(3-aminopropyl)laurlyamine	2372-82-9	219-145-8

Physical properties DPD+ Substances:

Substance	Vapour pressure	Water solubility	Pow	Molar Mass
N,N-Bis(3-aminopropyl)laurlyamine	0.0000014 hPa	> 10 g/l	0.218	
N,N-Bis(3-aminopropyl)laurlyamine	0.0000014 hPa	> 10 g/l	0.218	
alcohol ethoxylate	2.17 Pa	94.58 mg/l	1,995.26	

To calculate if your downstream Operating Conditions and Risk management Measures are safe, please calculate your risk factor at the website below:

www.ecetoc.org/tra

Short title of Exposure Scenario : **Biocide. Spray and rinse manual process**

Use descriptors

Main User Groups : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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Sectors of end-use	:	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	:	PROC11: Non industrial spraying PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Product categories	:	PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	:	ERC8a: Wide dispersive indoor use of processing aids in open systems

Short title of Exposure Scenario : **Biocide. Manual process**

Use descriptors

Main User Groups	:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	:	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	:	PROC10: Roller application or brushing PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Product categories	:	PC35: Washing and cleaning products (including solvent based products)
Environmental Release Categories	:	ERC8a: Wide dispersive indoor use of processing aids in open systems

Short title of Exposure Scenario : **Dishwash product. Manual process**

Use descriptors

Main User Groups	:	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sectors of end-use	:	SU22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process categories	:	PROC10: Roller application or brushing PROC8a: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities
Product categories	:	PC35: Washing and cleaning products (including solvent based products)

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products)

Environmental Release
Categories

: **ERC8a:** Wide dispersive indoor use of processing aids in open
systems