

**Safety Data Sheet dated 13/2/2023, version 7****SECTION 1: Identification of the substance/mixture and of the company/undertaking**

## 1.1. Product identifier

Trade name: POLIURETAN SPRAY S-35RGB/ECO  
Product type and use: Formulated poliol  
UFI: 5Y00-F0W5-S00U-3716

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

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

## Company:

SYNTHESIA TECHNOLOGY EUROPE, S.L.U. - C/. Argent, 3 - 08775 - Castellbisbal -  
Barcelona- ESPAÑA

SYNTHESIA TECHNOLOGY EUROPE, S.L.U. - Phone nr.(34) 93.682.13.00

## Competent person responsible for the safety data sheet:

cservice@synthesia.com

## 1.4. Emergency telephone number

ES: Instituto Nacional de Toxicología y Ciencias Forenses: Servicio de Información  
Toxicológica: (+34)915620420

(+34) 93 682 13 00. Horario de oficina (during business hours). Información química y sobre  
riesgos físicos (physical hazards and chemical information)

**SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## EC regulation criteria 1272/2008 (CLP)

- ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
- ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
- ⚠ Warning, Skin Sens. 1, May cause an allergic skin reaction.
- ☠ Danger, Repr. 1B, May damage fertility or the unborn child.  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

## Adverse physicochemical, human health and environmental effects:

No other hazards

## 2.2. Label elements

## Hazard pictograms:



Danger

## Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H360 May damage fertility or the unborn child.
- H412 Harmful to aquatic life with long lasting effects.

## Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash ... Thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

Special Provisions:

None

Contains

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated  
 Dibutyltin dilaurate  
 1,2-dimethylimidazole: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 15% - < 20%	tris(2-chloro-1-methylethyl) phosphate	CAS: 13674-84-5 EC: 237-158-7 REACH No.: 01-2119486772-26-XXXX	⚠ 3.1/4/Oral Acute Tox. 4 H302
>= 12.5% - < 15%	Propoxylated ethylenediamine	CAS: 25214-63-5 EC: 500-035-6 REACH No.: 01-2119471485-32-0000	⚠ 3.3/2 Eye Irrit. 2 H319
>= 12.5% - < 15%	Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated	EC: 701-426-6	⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.4.2/1 Skin Sens. 1 H317 ⚠ 4.1/C2 Aquatic Chronic 2 H411
>= 10% - < 12.5%	(1E)-1-chloro-3,3,3-trifluoroprop-1-ene	CAS: 102687-65-0 EC: 700-486-0 REACH No.: 01-2119855084-38-XXXX	⚠ 2.5/L Press. Gas (Liq.) H280 ⚠ 4.1/C3 Aquatic Chronic 3 H412
>= 0.5% - < 1%	Cyclohexyldimethylamine	CAS: 98-94-2 EC: 202-715-5 REACH No.: 01-2119533030-60-XXXX	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 4.1/C2 Aquatic Chronic 2 H411 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/3/Inhal Acute Tox. 3 H331 ⚠ 3.1/3/Derma Acute Tox. 3 H311



			3.1/3/Oral Acute Tox. 3 H301 ◊ 3.2/1B Skin Corr. 1B H314
>= 0.5% - < 1%	1,2-dimethylimidazole	CAS: 1739-84-0 EC: 217-101-2 REACH No.: 01-2119977103-39-XXXX	◊ 3.1/4/Oral Acute Tox. 4 H302 ◊ 3.2/2 Skin Irrit. 2 H315 ◊ 3.3/1 Eye Dam. 1 H318 ◊ 3.4.2/1B Skin Sens. 1B H317
>= 0.25% - < 0.5%	Dibutyltin dilaurate	CAS: 77-58-7 EC: 201-039-8 REACH No.: 01-2119496068-27-XXXX	◊ 3.4.2/1 Skin Sens. 1 H317 ◊ 4.1/A1 Aquatic Acute 1 H400 ◊ 3.7/1B Repr. 1B H360Fd ◊ 3.8/1 STOT SE 1 H370 ◊ 3.2/1A Skin Corr. 1A H314 ◊ 3.5/2 Muta. 2 H341 ◊ 3.9/1 STOT RE 1 H372 ◊ 4.1/C1 Aquatic Chronic 1 H410

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

May cause irritation and injury to the cornea epithelium.

Effects may include discomfort and redness.

Vapour emitted by hot material may cause respiratory irritation.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

- 5.2. Special hazards arising from the substance or mixture  
Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.
- 5.3. Advice for firefighters  
Use suitable breathing apparatus .  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13

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## SECTION 7: Handling and storage

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Store at : 15°C - 25°C  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
None in particular

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## SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters  
Dibutyltin dilaurate - CAS: 77-58-7  
ESP - TWA(8h): 0.1 mg/m<sup>3</sup> - STEL(): 0.2 mg/m<sup>3</sup>  
DNEL Exposure Limit Values  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5  
Worker Professional: 8 mg/kg bw/d - Consumer: 4 mg/kg - Exposure: Human Dermal -  
Frequency: Short Term, systemic effects  
Worker Professional: 2.08 mg/kg bw/d - Consumer: 1.04 mg/kg bw/d - Exposure: Human

- Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 22.4 mg/m<sup>3</sup> - Consumer: 11.2 mg/m<sup>3</sup> - Exposure: Human
- Inhalation - Frequency: Short Term, systemic effects  
Worker Professional: 5.82 mg/m<sup>3</sup> - Consumer: 1.46 mg/m<sup>3</sup> - Exposure: Human
- Inhalation - Frequency: Long Term, systemic effects  
Consumer: 0.52 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects  
Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects
- Propoxylated ethylenediamine - CAS: 25214-63-5  
Worker Professional: 13.9 mg/kg bw/day - Consumer: 8.3 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 98 mg/m<sup>3</sup> - Consumer: 29 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 8.3 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated  
Worker Professional: 7.7 mg/m<sup>3</sup> - Consumer: 1.6 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 2.2 mg/kg bw/d - Consumer: 0.9 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 0.9 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
- (1E)-1-chloro-3,3,3-trifluoroprop-1-ene - CAS: 102687-65-0  
Worker Professional: 1779 mg/m<sup>3</sup> - Consumer: 379 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 109 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
- Cyclohexyldimethylamine - CAS: 98-94-2  
Worker Professional: 530 µg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 8.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Professional: 8.3 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Professional: 0.6 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 35 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
- 1,2-dimethylimidazole - CAS: 1739-84-0  
Worker Professional: 4.41 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Professional: 2.5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 0.135 mg/cm<sup>2</sup> - Exposure: Human Dermal - Frequency: Short Term, local effects
- Dibutyltin dilaurate - CAS: 77-58-7  
Worker Professional: 0.2 mg/kg - Consumer: 0.16 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Worker Professional: 0.07 mg/m<sup>3</sup> - Consumer: 0.02 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Professional: 0.01 mg/m<sup>3</sup> - Consumer: 0.003 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Consumer: 0.08 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects  
Consumer: 0.01 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 0.002 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 2.08 mg/kg bw/d - Consumer: 1 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects

#### PNEC Exposure Limit Values

tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5

Target: Fresh Water - Value: 0.32 mg/l

Target: Marine water - Value: 0.032 mg/l

Target: Variable emissions - Value: 0.51 mg/l

Target: Freshwater sediments - Value: 11.5 mg/kg

Target: Marine water sediments - Value: 1.15 mg/kg

Target: Soil (agricultural) - Value: 0.34 mg/kg

Target: Microorganisms in sewage treatments - Value: 7.84 mg/l

Propoxylated ethylenediamine - CAS: 25214-63-5

Target: Fresh Water - Value: 0.085 mg/l

Target: Marine water - Value: 0.0085 mg/l

Target: Variable emissions - Value: 1.51 mg/l

Target: Microorganisms in sewage treatments - Value: 70 mg/l

Target: Freshwater sediments - Value: 0.193 mg/kg

Target: Marine water sediments - Value: 0.0193 mg/kg

Target: Soil (agricultural) - Value: 0.0183 mg/kg

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

Target: Fresh Water - Value: 5.6 µg/l

Target: Marine water - Value: 0.56 µg/l

Target: Fresh Water - Value: 0.102 mg/kg

Target: Marine water - Value: 0.0102 mg/kg

Target: Microorganisms in sewage treatments - Value: 3.14 mg/l

Target: Soil (agricultural) - Value: 0.0171 mg/kg

(1E)-1-chloro-3,3,3-trifluoroprop-1-ene - CAS: 102687-65-0

Target: Fresh Water - Value: 0.038 mg/l

Target: Marine water - Value: 0.0038 mg/l

Target: Freshwater sediments - Value: 0.691 mg/kg bw/d

Target: Marine water sediments - Value: 0.0691 mg/kg bw/d

Target: Soil (agricultural) - Value: 0.126 mg/kg bw/d

Cyclohexyldimethylamine - CAS: 98-94-2

Target: Fresh Water - Value: 0.002 mg/l

Target: Marine water - Value: 0.0002 mg/l

Target: Freshwater sediments - Value: 0.0211 mg/kg

Target: Marine water sediments - Value: 0.00211 mg/kg

Target: Soil (agricultural) - Value: 0.00305 mg/kg

Target: Microorganisms in sewage treatments - Value: 20.6 mg/l

Target: Variable emissions - Value: 0.02 mg/l

1,2-dimethylimidazole - CAS: 1739-84-0

Target: Fresh Water - Value: 0.0581 mg/l

Target: Marine water - Value: 0.00581 mg/l

Target: Sporadic release - Value: 0.581 mg/l

Target: Freshwater sediments - Value: 4.8 mg/kg

Target: Marine water sediments - Value: 0.48 mg/kg

Target: Soil (agricultural) - Value: 0.924 mg/kg

Target: Microorganisms in sewage treatments - Value: 0.3 mg/kg

Dibutyltin dilaurate - CAS: 77-58-7

Target: Fresh Water - Value: 0.000463 mg/l

Target: Marine water - Value: 0.0000463 mg/l

Target: Sporadic release - Value: 0.00463 mg/l

Target: Freshwater sediments - Value: 0.05 mg/kg

Target: Soil (agricultural) - Value: 0.0407 mg/kg

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 0.005 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Safety shoes.

Chemical protection clothing.

Protection for hands:

Gloves with long cuffs.

NBR (nitrile rubber).

NR (natural rubber, natural latex).

Polychloroprene (neoprene)

Respiratory protection:

Full-/Half-/quarter-face masks (DIN EN 136/140).

Mask with filter "A2", brown colour.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

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

Properties	Value	Method:	Notes:
Appearance:	Liquid		
Colour:	Dark brown	--	--
Odour:	Ammonia	--	--
Odour threshold:	Not Relevant	--	--
pH:	9	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	> 70 °C	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not Relevant	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--



Relative density:	1.16 (25°C)	--	--
Solubility in water:	NO	--	--
Solubility in oil:	NO	--	--
Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	360 cps (22°C)	--	--
Explosive properties:	NO	--	--
Oxidizing properties:	NO	--	--

## 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--
Conductivity:	Not Relevant	--	--
Substance Groups relevant properties:	Not Relevant	--	--

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## SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

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## SECTION 11: Toxicological information

- 11.1. Information on toxicological effects  
Toxicological information of the product:  
N.A.  
Toxicological information of the main substances found in the product:  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5

- a) acute toxicity:  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg  
Test: LC50 - Route: Inhalation - Species: Rat > 4.6 mg/l - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rat = 550 mg/kg - Harmful if swallowed  
Propoxylated ethylenediamine - CAS: 25214-63-5
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg  
Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated
- a) acute toxicity:  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg  
Test: LC50 - Route: Oral - Species: Female rat > 2000 mg/kg  
Cyclohexyldimethylamine - CAS: 98-94-2
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 272 mg/kg bw/d  
Test: LC50 - Route: Inhalation - Species: Rat = 1700 mg/m<sup>3</sup>  
Test: LD50 - Route: Skin - Species: Rabbit = 380 mg/kg
- b) skin corrosion/irritation:  
Test: Skin Corrosive
- c) serious eye damage/irritation:  
Test: Eye Irritant
- d) respiratory or skin sensitisation:  
Test: No danger of sensitization  
1,2-dimethylimidazole - CAS: 1739-84-0
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 1300 mg/kg  
Test: CL0 - Route: Inhalation - Species: Rat > 3 mg/l - Duration: 4h  
Test: DL0 - Route: Skin - Species: Rabbit > 200 mg/kg  
Dibutyltin dilaurate - CAS: 77-58-7
- a) acute toxicity:  
Test: LD50 - Route: Oral - Species: Rat = 2071 mg/kg - Source: OECD TG 401  
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD TG 402
- b) skin corrosion/irritation:  
Test: Skin Corrosive - Route: Skin Positive 0.3 mg/kg
- c) serious eye damage/irritation:  
Test: Eye Corrosive - Route: Skin - Species: Rabbit Positive - Source: OCDE 405
- d) respiratory or skin sensitisation:  
Test: Skin Sensitization - Route: Skin Positive - Source: OCDE 406
- e) germ cell mutagenicity:  
Positive - Source: in vitro
- g) reproductive toxicity:  
Positive
- h) STOT-single exposure:  
Test: Cat.1 Positive
- i) STOT-repeated exposure:  
Test: Cat.1 Positive

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;  
b) skin corrosion/irritation;  
c) serious eye damage/irritation;  
d) respiratory or skin sensitisation;  
e) germ cell mutagenicity;  
f) carcinogenicity;  
g) reproductive toxicity;

- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5

#### a) Aquatic acute toxicity:

- Endpoint: LC50 - Species: Pimephales promelas = 51 mg/l - Duration h: 96
- Endpoint: CE50 - Species: Daphnia = 131 mg/l - Duration h: 48
- Endpoint: CE50 - Species: Pseudokirchneriella subcapitata = 82 mg/l - Duration h: 72
- Endpoint: CE50 - Species: Daphnia magna = 131 mg/l - Duration h: 48
- Endpoint: NOEC - Species: Pimephales promelas = 9.8 mg/l - Duration h: 96
- Endpoint: LC50 - Species: Danio rera (zebrafish) = 100 mg/l

#### d) Terrestrial toxicity:

- Endpoint: NOEC - Species: Daphnia magna = 32 mg/kg

#### e) Plant toxicity:

- Endpoint: NOEC - Species: Pseudokirchneriella subcapitata = 13 mg/l - Duration h: 72

#### f) Effects in sewage plants:

- Endpoint: CE50 - Species: Bacteria = 784 mg/l - Duration h: 3

Propoxylated ethylenediamine - CAS: 25214-63-5

#### a) Aquatic acute toxicity:

- Endpoint: CE50 - Species: Daphnia magna > 100 mg/l - Duration h: 48
- Endpoint: LC50 - Species: Danio rera (zebrafish) = 4870 mg/l - Duration h: 96

#### b) Aquatic chronic toxicity:

- Endpoint: LC50 - Species: Leuciscus idus = 4600 mg/l - Duration h: 96
- Endpoint: NOEC - Species: Daphnia magna >= 10 mg/l - Duration h: 504

#### c) Bacteria toxicity:

- Endpoint: NOEC - Species: Activated Sludge = 7000 mg/l - Duration h: 3

#### e) Plant toxicity:

- Endpoint: CE50 - Species: Desmodesmus subspicatus (chodat) = 150.67 mg/l - Duration h: 72

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

#### a) Aquatic acute toxicity:

- Endpoint: CE10 - Species: Pseudokirchneriella subcapitata = 3.5 mg/l - Duration h: 72
- Endpoint: CE10 = 31.4 mg/l - Duration h: 3
- Endpoint: CE50 - Species: Pseudokirchneriella subcapitata = 5.6 mg/l - Duration h: 72
- Endpoint: CE50 - Species: Microorganism = 114.2 mg/l - Duration h: 3
- Endpoint: LC50 - Species: Brachydanio rerio = 8.8 mg/l - Duration h: 96
- Endpoint: CE50 - Species: Daphnia magna = 6.5 mg/l - Duration h: 48

Cyclohexyldimethylamine - CAS: 98-94-2

#### a) Aquatic acute toxicity:

- Endpoint: LC50 - Species: Leuciscus idus = 31.58 mg/l - Duration h: 96
- Endpoint: LC50 - Species: Oncorhynchus mykiss = 28 mg/l - Duration h: 96
- Endpoint: EC50 - Species: Daphnia magna = 75 mg/l - Duration h: 48
- Endpoint: CE50 - Species: Scenedesmus subspicatus > 2 mg/l - Duration h: 72
- Endpoint: NOEC - Species: Algae = 0.0625 mg/l
- Endpoint: CE10 - Species: Pseudomonas putida = 137 mg/l - Duration h: 17
- Endpoint: CE10 - Species: Scenedesmus subspicatus = 0.0784 mg/l - Duration h: 72

1,2-dimethylimidazole - CAS: 1739-84-0

#### a) Aquatic acute toxicity:

- Endpoint: LC50 - Species: Brachydanio rerio = 63.03 mg/l - Duration h: 96
- Endpoint: CE50 - Species: Daphnia magna > 100 mg/l - Duration h: 48
- Endpoint: CE10 - Species: Pseudokirchneriella subcapitata = 19.73 mg/l - Duration h: 72

- Endpoint: CE20 - Species: Activated Sludge = 8.5 mg/l - Duration h: 3
- e) Plant toxicity:  
Endpoint: CE50 - Species: Pseudokirchneriella subcapitata = 58.1 mg/l - Duration h: 72  
Dibutyltin dilaurate - CAS: 77-58-7
- a) Aquatic acute toxicity:  
Endpoint: CI50 - Species: Fish = 3.1 mg/l - Notes: OCDE 203  
Endpoint: CE50 - Species: Daphnia magna = 463 - Duration h: 48 - Notes: OCDE 202  
Endpoint: CE50 - Species: Desmodesmus subspicatus (chodat) > 1 mg/l - Duration h: 72  
- Notes: OCDE 201
- 12.2. Persistence and degradability  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5  
Biodegradability: Readily biodegradable - Duration: 64 days - %: 95 - Notes: 302 A OCDE  
Propoxylated ethylenediamine - CAS: 25214-63-5  
Biodegradability: Non-readily biodegradable - Test: OECD 301F - Duration: 28 days - %: 9  
Biodegradability: Non-readily biodegradable - Test: Oxygen consumption - Duration: 28  
days - %: 36  
Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated  
Biodegradability: Non-readily biodegradable - Test: OECD 301D - Duration: 28 days - %:  
8.9  
Cyclohexyldimethylamine - CAS: 98-94-2  
Biodegradability: Readily biodegradable - %: 90-100 - Notes: OCDE  
1,2-dimethylimidazole - CAS: 1739-84-0  
Biodegradability: Readily biodegradable - Test: OECD 301D - %: 93  
Dibutyltin dilaurate - CAS: 77-58-7  
Biodegradability: Non-readily biodegradable - Duration: 39 days - %: 23 - Notes: OCDE  
301 F
- 12.3. Bioaccumulative potential  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5  
Test: BCF - Bioconcentration factor 8  
Test: logPow 3.17  
Propoxylated ethylenediamine - CAS: 25214-63-5  
Bioaccumulation: Bioaccumulative - Test: Kow - Partition coefficient 1.82  
Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated  
Bioaccumulation: Low - Test: logPow 1.72  
Cyclohexyldimethylamine - CAS: 98-94-2  
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 50  
1,2-dimethylimidazole - CAS: 1739-84-0  
Bioaccumulation: Not bioaccumulative  
Dibutyltin dilaurate - CAS: 77-58-7  
Test: logPow 4.44
- 12.4. Mobility in soil  
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5  
Test: Koc 324.2  
Propoxylated ethylenediamine - CAS: 25214-63-5  
Mobility in soil: Mobile - Test: Koc  
Cyclohexyldimethylamine - CAS: 98-94-2  
Mobility in soil: Not mobile
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled

conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

- 14.1. UN number
- 14.2. UN proper shipping name
  - ADR-Shipping Name: \*ENTER PROPER SHIPPING NAME\*<CMPDATA,1,0,,>
  - IATA-Shipping Name: \*ENTER PROPER SHIPPING NAME\*<CMPDATA,1,0,,>
  - IMDG-Shipping Name: \*ENTER PROPER SHIPPING NAME\*<CMPDATA,1,0,,>
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- 14.5. Environmental hazards
  - ADR-Environmental Pollutant: No
- 14.6. Special precautions for user
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
N.A.

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## SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Dir. 98/24/EC (Risks related to chemical agents at work)
  - Dir. 2000/39/EC (Occupational exposure limit values)
  - Regulation (EC) n. 1907/2006 (REACH)
  - Regulation (EC) n. 1272/2008 (CLP)
  - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
  - Regulation (EU) 2020/878
  - Regulation (EU) n. 286/2011 (ATP 2 CLP)
  - Regulation (EU) n. 618/2012 (ATP 3 CLP)
  - Regulation (EU) n. 487/2013 (ATP 4 CLP)
  - Regulation (EU) n. 944/2013 (ATP 5 CLP)
  - Regulation (EU) n. 605/2014 (ATP 6 CLP)
  - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
  - Regulation (EU) n. 2016/918 (ATP 8 CLP)
  - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
  - Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

  - Restrictions related to the product:
    - Restriction 3
    - Restriction 40
  - Restrictions related to the substances contained:
    - No restriction.

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):  
Seveso III category according to Annex 1, part 1  
None
- 15.2. Chemical safety assessment
  - No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 2:

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- H280 Contains gas under pressure; may explode if heated.
- H412 Harmful to aquatic life with long lasting effects.
- H226 Flammable liquid and vapour.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H311 Toxic in contact with skin.
- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H400 Very toxic to aquatic life.
- H360Fd May damage fertility. Suspected of damaging the unborn child.
- H370 Causes damage to organs.
- H341 Suspected of causing genetic defects.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Press. Gas (Liq.)	2.5/L	Gases under pressure (Liquefied gas)
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
Repr. 1B	3.7/1B	Reproductive toxicity, Category 1B
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure,

		Category 1
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
 SECTION 3: Composition/information on ingredients  
 SECTION 15: Regulatory information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
 Commission of the European Communities  
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
 Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ATE: Acute Toxicity Estimate  
 ATEmix: Acute toxicity Estimate (Mixtures)  
 CAS: Chemical Abstracts Service (division of the American Chemical Society).  
 CLP: Classification, Labeling, Packaging.  
 DNEL: Derived No Effect Level.  
 EINECS: European Inventory of Existing Commercial Chemical Substances.  
 GefStoffVO: Ordinance on Hazardous Substances, Germany.  
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
 IATA: International Air Transport Association.  
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 ICAO: International Civil Aviation Organization.  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
 IMDG: International Maritime Code for Dangerous Goods.  
 INCI: International Nomenclature of Cosmetic Ingredients.  
 KSt: Explosion coefficient.  
 LC50: Lethal concentration, for 50 percent of test population.  
 LD50: Lethal dose, for 50 percent of test population.

PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.