Safety Data Sheet dated 26/10/2018, version 3

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

1.1. Product identifier
Trade name: POLIURETAN SPRAY S-303 HFO-W
Product type and use: Formulated poliol
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@synte.es
1.4. Emergency telephone number
ES: Instituto Nacional de Toxicología y Ciencias Forenses: Servicio de Información Toxicológica: (+34)915620420
PT: Centro de Informação Antivenenos Instituto Nacional de Emergência Médica: (+35)808 250 143

(+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.
Danger, Eye Dam. 1, Causes serious eye damage.
Warning, Skin Sens. 1A, 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.
H318 Causes serious eye damage.
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.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER/doctor/...

Special Provisions:
None

Contains
Formaldehído, polímero con nonilfenol, productos de reacción con dietanolamina
Dibutyltin dilaurate
1,2-dimethylimidazole
Cyclohexyldimethylamine

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: 237-159-2 REACH No.: 01-2119486772-26-XXXX	3.1/4/Oral Acute Tox. 4 H302
>= 10% - < 12.5%	Formaldehído, polímero con nonilfenol, productos de reacción con dietanolamina	CAS: 68610-97-9 REACH No.: 01-2119928014-47-XXXX	3.2/2 Skin Irrit. 2 H315 3.4.2/1A Skin Sens. 1A H317 3.3/2 Eye Irrit. 2 H319 4.1/C2 Aquatic Chronic 2 H411
>= 10% - < 12.5%	Propoxylated ethylenediamine	CAS: 25214-63-5 EC: 500-035-6 REACH No.: 01-2119471485-32-0000	3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	1,2-dimethylimidazole	CAS: 1739-84-0 EC: 217-101-2	3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318
>= 1% - < 3%	Ethane-1,2-diol	CAS: 107-21-1 EC: 203-473-3	3.1/4/Oral Acute Tox. 4 H302 3.9/2 STOT RE 2 H373
>= 1% - < 3%	1,1,3,3-tetrametilguanidina	CAS: 80-70-6 EC: 201-302-7	2.6/3 Flam. Liq. 3 H226 3.1/4/Oral Acute Tox. 4 H302 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318

>= 1% - < 3%	Cyclohexyldimethylamine	CAS: EC: REACH No.:	98-94-2 202-715-5 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/Dermal Acute Tox. 3 H311 3.1/3/Oral Acute Tox. 3 H301 3.2/1B Skin Corr. 1B H314
>= 0.5% - < 1%	Dibutyltin dilaurate	CAS: EC:	77-58-7 201-039-8	3.3/1 Eye Dam. 1 H318 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.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
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 opthalmologist 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

None

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:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water.
Carbon dioxide (CO2).
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.

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

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.
Contamined 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 food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethane-1,2-diol - CAS: 107-21-1

- TWA(8h): 52 mg/m3, 20 ppm - STEL(): 104 mg/m3, 40 ppm
  EU - TWA(8h): 52 mg/m3, 20 ppm - STEL: 104 mg/m3, 40 ppm - Notes: Skin
  ACGIH - STEL: Ceiling 100 mg/m3 - Notes: (H), A4 - URT and eye irr

DNEL Exposure Limit Values

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

Worker Professional: 8 mg/kg - 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/m3 - Consumer: 11.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 5.82 mg/m3 - Consumer: 1.46 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 0.52 mg/kg bw/d - Exposure: Human Oral

Propoxylated ethylenediamine - CAS: 25214-63-5
Worker Professional: 13.9 mg/kg pc/d - Consumer: 8.3 mg/kg pc/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 98 mg/m3 - Consumer: 29 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.3 mg/kg pc/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Ethane-1,2-diol - CAS: 107-21-1
Worker Professional: 106 mg/kg - Consumer: 53 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 35 mg/m3 - Consumer: 7 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Cyclohexyldimethylamine - CAS: 98-94-2
Worker Professional: 35 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 35 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Dibutyltin dilaurate - CAS: 77-58-7
Worker Professional: 0.02 mg/m3 - Consumer: 0.006 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 0.42 mg/kg bw/d - Consumer: 0.16 mg/kg bw/d - Exposure: Human Dermal - 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
Consumer: 0.04 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Consumer: 0.002 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 0.02 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5
Target: Fresh Water - Value: 0.64 mg/l
Target: Marine water - Value: 0.064 mg/l
Target: Variable emissions - Value: 0.51 mg/l
Target: Freshwater sediments - Value: 13.4 mg/kg
Target: Marine water sediments - Value: 1.34 mg/kg
Target: Soil (agricultural) - Value: 1.7 mg/kg
Target: Microorganisms in sewage treatments - Value: 7.84 mg/l
Target: Oral - Value: 11.6 mg/kg

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

Ethane-1,2-diol - CAS: 107-21-1
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l

Target: Variable emissions - Value: 10 mg/l
Target: Freshwater sediments - Value: 20.9 mg/kg
Target: Soil (agricultural) - Value: 1.53 mg/kg
Target: Microorganisms in sewage treatments - Value: 199.5 mg/kg
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
Dibutyltin dilaurate - CAS: 77-58-7
Target: Fresh Water - Value: 0.463 µg/l
Target: Marine water - Value: 0.0463 µg/l
Target: Variable emissions - Value: 4.63 µg/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:
Suitable gloves type:
Gloves with long cuffs.
Suitable material:
NBR (nitrile rubber).
NR (natural rubber, natural latex).

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance:	Liquid		
Colour:	Amber	--	--
Odour:	Ammonia	--	--
Odour threshold:	Not Relevant	--	--

pH:	9	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	> 100 °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:	1.14 (20º C)	--	--
Solubility in water:	NO	--	--
Solubility in oil:	NO	--	--
Partition coefficient (n-octanol/water):		--	--
Auto-ignition temperature:		--	--
Decomposition temperature:		--	--
Viscosity:	400 cps (22 ºC)	--	--
Explosive properties:	NO	--	--
Oxidizing properties:	NO	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes:**
Miscibility:		--	--
Fat Solubility:		--	--
Conductivity:		--	--
Substance Groups relevant properties:		--	--

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.

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 > 7 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Female mouse = 632 mg/kg
Test: LD50 - Route: Oral - Species: Male mouse >= 500 mg/kg
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
Ethane-1,2-diol - CAS: 107-21-1
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 9530 mg/kg
1,1,3,3-tetrametilguanidina - CAS: 80-70-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 835 mg/kg
Cyclohexyldimethylamine - CAS: 98-94-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 272 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 1.7-5.8 mg/l
Test: LD50 - Route: Skin - Species: Rabbit = 380 mg/kg
Dibutyltin dilaurate - CAS: 77-58-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 1600 mg/kg bw/d
Test: LD50 - Route: Skin - Species: Rat = 2000 mg/kg
i) STOT-repeated exposure:
Test: NOAEL - Route: Oral = 0.3 mg/kg

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.

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: CI50 - Species: Pseudokirchneriella subcapitata = 82 mg/l - Duration h: 72
Endpoint: CE50 - Species: Daphnia magna 40 mg/l
Endpoint: NOEC - Species: Pimephales promelas 9.8 mg/l - Duration h: 96
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: LC50 - Species: Fish > 100 mg/l
b) Aquatic chronic toxicity:
Endpoint: LC50 - Species: Fish = 4600 mg/l - Duration h: 96
Endpoint: NOEC - Species: Daphnia magna > 10 mg/l
e) Plant toxicity:
Endpoint: CE50 - Species: Algae = 150.67 mg/l - Duration h: 72
Ethane-1,2-diol - CAS: 107-21-1
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Pimephales promelas = 8050 mg/l - Duration h: 96
Endpoint: LC50 - Species: Pimephales promelas > 10000 mg/l - Duration h: 96
Endpoint: LC50 - Species: Lepomis macrochirus = 27540 mg/l - Duration h: 96
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
Dibutyltin dilaurate - CAS: 77-58-7
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Danio rera (zebrafish) = 3.1 mg/l
Endpoint: CE50 - Species: Daphnia magna = 463 µg/l - Duration h: 48
Endpoint: CE50 - Species: Desmodesmus subspicatus (chodat) > 1 mg/l - Duration h: 72

12.2. Persistence and degradability

tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5
Biodegradability: Readily biodegradable - Test: N.A. - Duration: 64 days - %: 95 - Notes: 302 A OCDE
Propoxylated ethylenediamine - CAS: 25214-63-5
Biodegradability: Readily biodegradable - Test: OECD 301F - Duration: 28 days - %: 9 - Notes: N.A.

Cyclohexyldimethylamine - CAS: 98-94-2
Biodegradability: Readily biodegradable - Test: N.A. - Duration: N.A. - %: 90-100 - Notes: OCDE
Dibutyltin dilaurate - CAS: 77-58-7
Biodegradability: Non-readily biodegradable - Test: N.A. - Duration: 39 days - %: 23 - Notes: N.A.

12.3. Bioaccumulative potential
tris(2-chloro-1-methylethyl) phosphate - CAS: 13674-84-5
Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration: N.A. - Notes: N.A.
Cyclohexyldimethylamine - CAS: 98-94-2
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentrantion factor 50 - Duration: N.A. - Notes: N.A.
Dibutyltin dilaurate - CAS: 77-58-7
Bioaccumulation: N.A.Test: BCF - Bioconcentrantion factor 2.91 - Duration: N.A. - Notes: N.A.

12.4. Mobility in soil
Cyclohexyldimethylamine - CAS: 98-94-2
Mobility in soil: Not mobile - Test: N.A. N.A. - Duration: N.A. - Notes: N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
None

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.

SECTION 14: Transport information

14.1. UN number
Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
N.A.

14.6. Special precautions for user
N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
N.A.

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) 2015/830
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)

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 3:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H301 Toxic if swallowed.
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
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. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
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
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
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

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

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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.
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.