

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

1.1. Product identifier

Product form : Mixture
Product name : ZIP-STRIP
Product code : 365
Type of product : Detergent
Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use
Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns Professional Hygiene UK Ltd
Clover House
Macclesfield Road
SK23 7DQ Whaley Bridge, Derbyshire
United Kingdom
T 01663 733114, F 01663 733115
info.cph.uk@christeyns.com, www.christeyns-ph.co.uk

Supplier

Christeyns NV
Afrikalaan 182
9000 GENT
Belgium
T +32 (0)9/ 223 38 71, F +32 (0)9/ 233 03 44
info@christeyns.be, www.christeyns.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	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]

Skin corrosion/irritation, Category 1, Sub-Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity – Single exposure, Category 3, H335
Respiratory tract irritation
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) :



GHS05

GHS07

CLP Signal word

: Danger

Contains

: 2-aminoethanol

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

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Precautionary statements (CLP) : P102 - Keep out of reach of children.
P260 - Do not breathe dust, fume, gas, mist, spray, vapours.
P280 - Wear protective gloves, eye protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 - Get medical advice/attention if you feel unwell.
P362 - Take off contaminated clothing.

2.3. Other hazards

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 substance(s) are 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 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol substance with national workplace exposure limit(s) (BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, AL, IS, NO, RS, CH)	CAS-no: 111-76-2 Einecs nr: 203-905-0 EG annex nr: 603-014-00-0 REACH-no: 01-2119475108-36	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Acute Tox. 3 (Inhalation:vapour), H331 (ATE=3 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-aminoethanol substance with national workplace exposure limit(s) (BE, BG, DE, DK, EE, ES, FI, FR, GB, GI, GR, HU, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR)	CAS-no: 141-43-5 Einecs nr: 205-483-3 EG annex nr: 603-030-00-8 REACH-no: 01-2119486455-28	5 – 10	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT SE 3, H335 Aquatic Chronic 3, H412
Beta-alanine, N-(2-carboxyethyl)-,N-coco alykyl derivs., disodium salts	CAS-no: 90170-43-7 Einecs nr: 290-476-8 REACH-no: 01-2119976233-35	1 – 3	Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
2-aminoethanol	CAS-no: 141-43-5 Einecs nr: 205-483-3 EG annex nr: 603-030-00-8 REACH-no: 01-2119486455-28	(5 ≤ C ≤ 100) STOT SE 3, H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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- Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
- 4.2. Most important symptoms and effects, both acute and delayed**
- Symptoms/effects : Causes severe skin burns and eye damage.
- Acute effects inhalation : May cause respiratory irritation.
- Acute effects skin : Causes severe burns. Red skin.
- Acute effects eyes : Causes serious eye damage. stinging. redness, itching, tears.
- Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Abdominal pain, nausea.
- 4.3. Indication of any immediate medical attention and special treatment needed**
- No additional information available

SECTION 5: Firefighting measures

- 5.1. Extinguishing media**
- Suitable extinguishing media : Water.
- 5.2. Special hazards arising from the substance or mixture**
- Hazardous decomposition products in case of fire : Toxic fumes may be released.
- 5.3. Advice for firefighters**
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
- 6.1.1. For non-emergency personnel**
- Emergency procedures : Evacuate unnecessary personnel.
- 6.1.2. For emergency responders**
- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.
- 6.2. Environmental precautions**
- Avoid release to the environment.
- 6.3. Methods and material for containment and cleaning up**
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
- 6.4. Reference to other sections**
- See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling**
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse.
- 7.2. Conditions for safe storage, including any incompatibilities**
- Technical measures : Comply with applicable regulations.
- Storage conditions : Store in a cool, well-ventilated place. Keep container tightly closed.
- Packaging materials : polyethylene.
- 7.3. Specific end use(s)**
- No additional information available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
- 8.1.1 National occupational exposure and biological limit values**
- | 2-aminoethanol (141-43-5) | |
|---|----------------|
| United Kingdom - Occupational Exposure Limits | |
| Local name | 2-Aminoethanol |
| WEL TWA (OEL TWA) | 2.5 mg/m³ |

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2-aminoethanol (141-43-5)	
	1 ppm
WEL STEL (OEL STEL)	7.6 mg/m ³
	3 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-butoxyethanol (111-76-2)	
Ireland - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE) [Ethylene glycol monobutyl ether]
OEL TWA	98 mg/m ³
	20 ppm
OEL STEL	246 mg/m ³
	50 ppm
Remark	IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible)
Regulatory reference	Chemical Agents Code of Practice 2024
United Kingdom - Occupational Exposure Limits	
Local name	2-Butoxyethanol
WEL TWA (OEL TWA)	123 mg/m ³
	25 ppm
WEL STEL (OEL STEL)	246 mg/m ³
	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	2-Butoxyethanol
BMGV	240 mmol/mol Creatinine Parameter: butoxyacetic acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or face shield. Wear eye protection. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing

Hand protection:

Wear protective gloves. VITON gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Light yellow.
Physical state/form	: Liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: 0 °C
Freezing point	: Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Constituents do not contain chemical groups associated with explosivity
Upper explosion limit	: Constituents do not contain chemical groups associated with explosivity
Flash point	: Not determined as it is not relevant for the characterization of the product
Autoignition temperature	: Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required.
Decomposition temperature	: Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.
pH	: 11.3
Viscosity, kinematic	: Thin liquid
Viscosity, dynamic	: < 20 cP at 20 °C
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.006 g/cm ³
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

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-aminoethanol (141-43-5)

LD50 oral rat	1515 mg/kg
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LD50 dermal rabbit	2504 mg/kg
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2-butoxyethanol (111-76-2)

LD50 oral rat	1200 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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LC50 Inhalation - Rat [ppm]	4500
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LC50 Inhalation - Rat (Dust/Mist)	1.5 mg/l
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LC50 Inhalation - Rat (Vapours)	3 mg/l/4h
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Skin corrosion/irritation : Causes severe skin burns.

pH: 11.3

Serious eye damage/irritation : Causes serious eye damage.

pH: 11.3

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

2-butoxyethanol (111-76-2)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause respiratory irritation.

2-aminoethanol (141-43-5)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

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Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

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Viscosity, kinematic	Thin liquid
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

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-butoxyethanol (111-76-2)

LC50 - Fish [1]	1474 mg/l
EC50 - Crustacea [1]	1550 mg/l Daphnia magna
EC50 72h - Algae [1]	1840 mg/l
NOEC (chronic)	100 mg/l
NOEC chronic crustacea	100 mg/l Daphnia magna
NOEC chronic algae	130 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
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2-aminoethanol (141-43-5)

Persistence and degradability	Rapidly degradable
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Beta-alanine, N-(2-carboxyethyl)-,N-coco alykyl derivs., disodium salts (90170-43-7)

Persistence and degradability	Rapidly degradable
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2-butoxyethanol (111-76-2)

Persistence and degradability	Biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No bioaccumulation.
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2-butoxyethanol (111-76-2)

Log Pow	0.8
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Waste / unused products	: Avoid release to the environment.
HP Code	: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP8 - "Corrosive:" waste which on application can cause skin corrosion.


SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 2491	UN 2491	UN 2491
14.2. UN proper shipping name		
ETHANOLAMINE SOLUTION (2-aminoethanol)	ETHANOLAMINE SOLUTION (2-aminoethanol)	Ethanolamine solution (2-aminoethanol)
Transport document description		
UN 2491 ETHANOLAMINE SOLUTION (2-aminoethanol), 8, III, (E)	UN 2491 ETHANOLAMINE SOLUTION (2-aminoethanol), 8, III	UN 2491 Ethanolamine solution (2-aminoethanol), 8, III
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C7
Limited quantities (ADR)	: 5I
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	: 

Tunnel code	: E
EAC code	: 2X

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Transport by sea

Special provisions (IMDG) : 223
Limited quantities (IMDG) : 5 L
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03

Air transport

PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3, A803

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. 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.

Detergent Regulation (648/2004)

Labelling of contents	
Component	%
non-ionic surfactants, amphoteric surfactants	<5%

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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.

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Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method

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.