



# Injection System Purge

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 13/06/2023 Revision date: 08/05/2023 Version: 9.05

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Injection System Purge  
Product code : W76695  
Type of product : Detergent  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Petrol injection cleaner

##### 1.2.2. Uses advised against

No additional information available

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

ITW ADDITIVES INTL B.V.  
Industriepark-West 46  
9100 Sint-Niklaas  
Belgium  
T +32 3 766 60 20 - F +32 3 778 16 56  
[msds@wynns.eu](mailto:msds@wynns.eu) - [www.wynns.com](http://www.wynns.com)

#### 1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

### SECTION 2: Hazards identification

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

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

Flammable liquids, Category 2	H225
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

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Contains	: reaction mass of ethylbenzene and xylene ; Propan-2-ol; hydrocarbons, C6, isoalkanes, <5% n-hexane
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (if inhaled, oral). H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P405 - Store locked up. P210 - Keep away from hot surfaces, open flames, sparks, heat. – No smoking. P261 - Avoid breathing vapours. P280 - Wear protective gloves, eye protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 - Do NOT induce vomiting. P273 - Avoid release to the environment.

### 2.3. Other hazards

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

Component	
Propan-2-ol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

## 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]
reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01-2119488216-32	25 – 50	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Propan-2-ol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	10 – 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
hydrocarbons, C6, isoalkanes, <5% n-hexane	EC-No.: 931-254-9 REACH-no: 01-2119484651-34	10 – 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Pentane	CAS-No.: 109-66-0 EC-No.: 203-692-4 EC Index-No.: 601-006-00-1 REACH-no: 01-2119459286-30	10 – 25	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
2-butoxyethanol substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319
n-Butylpyrrolidone	CAS-No.: 3470-98-2 EC-No.: 222-437-8 REACH-no: 01-2120062728-48	2,5 – 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
amines, coco alkyl, ethoxylated (12 EO)	CAS-No.: 61791-14-8 EC-No.: 500-152-2	1 – 2,5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 3, H412
2,2'-iminodiethanol	CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1 REACH-no: 01-2119488930-28	0,1 – 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361fd STOT RE 2, H373

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01-2119488216-32	( 10 ≤C < 100) STOT RE 2, H373

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### First-aid measures general

: Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.

#### First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

#### First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

#### First-aid measures after eye contact

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

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First-aid measures after ingestion : If swallowed, rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

No additional information available

### 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 spray. ABC-powder. AFFF foam. Alcohol resistant foam.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Take precautionary measures against static discharges. This material can accumulate static charge by flow or agitation and can be ignited by static discharge.

Explosion hazard : No direct explosion hazard.

### 5.3. Advice for firefighters

Firefighting instructions : Prevent fire fighting water from entering the environment. Contain the extinguishing fluids by bunding.

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

General measures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Use special care to avoid static electric charges. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing. Wear suitable respiratory equipment in case of insufficient ventilation.

Emergency procedures : Mark the danger area. Prevent flow to low areas. In confined space use self-contained breathing apparatus. Take off contaminated clothing.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

For containment : Collect spillage. Contain the spilled material by bunding. Eliminate ignition sources. Contain leaking substance, pump over in suitable containers. Recover large spills by pumping (use an explosion proof or hand pump).

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Scoop absorbed substance into closing containers. Clean preferably with a detergent - Avoid the use of solvents. Dispose in a safe manner in accordance with local/national regulations.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Meet the legal requirements. Repeated exposure may cause skin dryness or cracking. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Presents no particular risk when handled in accordance with good occupational hygiene practice.
- Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of water/.... Wash contaminated clothing before reuse.

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

- Technical measures : Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Does not require any specific or particular technical measures.
- Storage conditions : Meet the legal requirements. Store in a dry place. Store in a closed container. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Storage temperature : < 45 °C
- Storage area : Meet the legal requirements. Fireproof storeroom. Ventilation along the floor.
- Special rules on packaging : Store in a dry place. Store in a closed container. Labelling according to.

#### 7.3. Specific end use(s)

See product bulletin for detailed information. Follow the instructions for use of the associated device.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

Propan-2-ol (67-63-0)	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	500 mg/m <sup>3</sup>
OEL TWA [ppm]	200 ppm
OEL STEL	1000 mg/m <sup>3</sup>
OEL STEL [ppm]	400 ppm
<b>France - Occupational Exposure Limits</b>	
VLE (OEL C/STEL)	980 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	400 ppm
<b>Pentane (109-66-0)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	1800 mg/m <sup>3</sup>
OEL TWA [ppm]	600 ppm
OEL STEL	2250 mg/m <sup>3</sup>
OEL STEL [ppm]	750 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA [ppm]	1000 ppm

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<b>2-butoxyethanol (111-76-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	2-Butoxyethanol
IOEL TWA	98 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
IOEL STEL	246 mg/m <sup>3</sup>
IOEL STEL [ppm]	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2-Butoxyéthanol # 2-Butoxy-ethanol
OEL TWA	98 mg/m <sup>3</sup>
OEL TWA [ppm]	20 ppm
OEL STEL	246 mg/m <sup>3</sup>
OEL STEL [ppm]	50 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	49 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	10 ppm
VLE (OEL C/STEL)	246 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	50 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	98 mg/m <sup>3</sup>
CK (OEL STEL)	246 mg/m <sup>3</sup>
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	100 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	20 ppm
TGG-15min (OEL STEL)	246 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	50 ppm
<b>2,2'-iminodiethanol (111-42-2)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	2 mg/m <sup>3</sup>
OEL TWA [ppm]	0,46 ppm
Remark	D

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

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### 8.1.4. DNEL and PNEC

reaction mass of ethylbenzene and xylene	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	442 mg/m <sup>3</sup>
Acute - local effects, inhalation	442 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	212 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	221 mg/m <sup>3</sup>
Long-term - local effects, inhalation	221 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	260 mg/m <sup>3</sup>
Acute - local effects, inhalation	260 mg/m <sup>3</sup>
Long-term - systemic effects, oral	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	65,3 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - local effects, inhalation	65,3 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,327 mg/l
PNEC aqua (marine water)	0,327 mg/l
PNEC aqua (intermittent, freshwater)	0,327 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	12,46 mg/kg dwt
PNEC sediment (marine water)	12,46 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	2,31 mg/kg dwt
<b>Propan-2-ol (67-63-0)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	888 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	500 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	89 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	319 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	140,9 mg/l
PNEC aqua (marine water)	140,9 mg/l
PNEC aqua (intermittent, freshwater)	140,9 mg/l
PNEC aqua (intermittent, marine water)	140,9 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	552 mg/kg dwt
PNEC sediment (marine water)	552 mg/kg dwt

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<b>Propan-2-ol (67-63-0)</b>	
<b>PNEC (Soil)</b>	
PNEC soil	28 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	160 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2251 mg/l
<b>hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	13964 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5306 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	1301 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1131 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1377 mg/kg bodyweight/day
<b>2-butoxyethanol (111-76-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	89 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1091 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	98 mg/m <sup>3</sup>
Long-term - local effects, inhalation	246 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	89 mg/kg bodyweight
Acute - systemic effects, inhalation	426 mg/m <sup>3</sup>
Acute - systemic effects, oral	26,7 mg/kg bodyweight
Long-term - systemic effects, oral	6,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	59 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	75 mg/kg bodyweight/day
Long-term - local effects, inhalation	147 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	8,8 mg/l
PNEC aqua (marine water)	0,88 mg/l
PNEC aqua (intermittent, freshwater)	9,1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	34,6 mg/kg dwt
PNEC sediment (marine water)	3,46 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	2,33 mg/kg dwt



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<b>2-butoxyethanol (111-76-2)</b>	
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	463 mg/l
<b>n-Butylpyrrolidone (3470-98-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	70,5 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, oral	2,5 mg/kg bodyweight
Long-term - systemic effects, oral	2,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	17,4 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,8 mg/l
PNEC aqua (marine water)	0,08 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	6,336 mg/kg dwt
PNEC sediment (marine water)	0,634 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,795 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	30,62 mg/l
<b>2,2',2''-nitriлотriethanol (102-71-6)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	6,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m <sup>3</sup>
Long-term - local effects, inhalation	5 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	13 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,25 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3,1 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,25 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,32 mg/l
PNEC aqua (marine water)	0,032 mg/l
PNEC aqua (intermittent, freshwater)	5,12 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	1,7 mg/kg dwt

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<b>2,2',2''-nitrioltriethanol (102-71-6)</b>	
PNEC sediment (marine water)	0,17 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,151 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	10 mg/l
<b>2,2'-iminodiethanol (111-42-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	0,13 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,06 mg/kg bodyweight/day
Long-term - systemic effects, dermal	0,07 mg/kg bodyweight/day
Long-term - local effects, inhalation	0,25 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,0156 mg/l
PNEC aqua (marine water)	0,00156 mg/l
PNEC aqua (intermittent, freshwater)	0,097 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,0718 mg/kg dwt
PNEC sediment (marine water)	0,00718 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,00518 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	1,04 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	100 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide good ventilation in process area to prevent formation of vapour. Does not require any specific or particular technical measures.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

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



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### 8.2.2.1. Eye and face protection

No additional information available

### 8.2.2.2. Skin protection

#### Hand protection:

Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

### 8.2.2.3. Respiratory protection

No additional information available

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Breakthrough time : >30'. Thickness of the glove material >0,1 mm.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: light yellow.
Appearance	: clear.
Odour	: aromatic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: $\geq 36$ °C (ASTM D1078)
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: -18 °C Calculated
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 0,8 mm <sup>2</sup> /s @ 40°C (ASTM D445)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 800 kg/m <sup>3</sup> @ 20°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Additional information : The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

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### 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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers. Protect from sunlight.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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) : Harmful if inhaled.

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ATE CLP (dust,mist)	4,286 mg/l/4h
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#### reaction mass of ethylbenzene and xylene

LD50 oral rat	3523 mg/kg bodyweight F344/N
LD50 dermal rabbit	12126 mg/kg bodyweight New Zealand White

#### Propan-2-ol (67-63-0)

LD50 oral rat	5840 mg/kg bodyweight Sherman
LD50 dermal rabbit	13900 mg/kg bodyweight
LC50 Inhalation - Rat	> 25 mg/l Vapour

#### hydrocarbons, C6, isoalkanes, <5% n-hexane

LD50 oral rat	16750 mg/kg bodyweight Long-Evans
LD50 dermal rabbit	3350 mg/kg bodyweight New Zealand White
LC50 Inhalation - Rat	259,354 mg/l/4h Long-Evans

#### Pentane (109-66-0)

LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 25,3 mg/l/4h Sprague-Dawley

#### 2-butoxyethanol (111-76-2)

LD50 oral rat	1200 mg/kg bodyweight Rat
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley

#### n-Butylpyrrolidone (3470-98-2)

LD50 oral rat	301 (≤ 1999) mg/kg bodyweight RccHan: WIST (SPF)
LD50 dermal rat	> 2000 mg/kg bodyweight Wistar

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<b>2,2'-iminodiethanol (111-42-2)</b>	
LD50 oral rat	1600 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
<b>amines, coco alkyl, ethoxylated (12 EO) (61791-14-8)</b>	
pH	≈ 10
Serious eye damage/irritation	: Causes serious eye irritation.
<b>amines, coco alkyl, ethoxylated (12 EO) (61791-14-8)</b>	
pH	≈ 10
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
<b>reaction mass of ethylbenzene and xylene</b>	
STOT-single exposure	May cause respiratory irritation.
<b>Propan-2-ol (67-63-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Pentane (109-66-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs (hearing organs) through prolonged or repeated exposure (if inhaled, oral).
<b>reaction mass of ethylbenzene and xylene</b>	
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure (oral, if inhaled).
<b>2,2'-iminodiethanol (111-42-2)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>Injection System Purge</b>	
Viscosity, kinematic	0,8 mm <sup>2</sup> /s @ 40°C (ASTM D445)
<b>reaction mass of ethylbenzene and xylene</b>	
Viscosity, kinematic	< 0,74 mm <sup>2</sup> /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
<b>hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	
Viscosity, kinematic	< 1 mm <sup>2</sup> /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
<b>Pentane (109-66-0)</b>	
Viscosity, kinematic	< 1 mm <sup>2</sup> /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

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<b>2-butoxyethanol (111-76-2)</b>	
Viscosity, kinematic	< 3,7 mm <sup>2</sup> /s
<b>n-Butylpyrrolidone (3470-98-2)</b>	
Viscosity, kinematic	4,48 mm <sup>2</sup> /s

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: This product contains hazardous components for the aquatic environment.
Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

<b>reaction mass of ethylbenzene and xylene</b>	
LC50 - Fish [1]	> 2,6 mg/l @96h
EC50 - Other aquatic organisms [1]	72h 2,2 mg/l

<b>Propan-2-ol (67-63-0)</b>	
LC50 - Fish [1]	96h 9640 mg/l pimephales promelas
EC50 - Crustacea [1]	24h 9714 mg/l daphnia magna
LOEC (chronic)	1000 mg/l @8d algae

<b>hydrocarbons, C6, isoalkanes, &lt;5% n-hexane</b>	
LC50 - Fish [1]	96h 12,51 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 23,22 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 13,56 mg/l Pseudokirchneriella subcapitata

<b>Pentane (109-66-0)</b>	
LC50 - Fish [1]	96h 4,26 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 2,7 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 10,7 mg/l Scenedesmus capricornutum
NOEC (acute)	72h 2,04 mg/l Scenedesmus capricornutum

<b>2-butoxyethanol (111-76-2)</b>	
LC50 - Fish [1]	96h 1464 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 1800 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 911 mg/l Pseudokirchneriella subcapitata
NOEC (acute)	72h 88 mg/l Pseudokirchneriella subcapitata

<b>n-Butylpyrrolidone (3470-98-2)</b>	
LC50 - Fish [1]	> 100 mg/l @96h Oncorhynchus mykiss
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	> 160 mg/l @72h Pseudokirchneriella subcapitata

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<b>n-Butylpyrrolidone (3470-98-2)</b>	
ErC50 algae	> 160 mg/l @72h Pseudokirchneriella subcapitata
NOEC (acute)	100 mg/l Oncorhynchus mykiss
<b>amines, coco alkyl, ethoxylated (12 EO) (61791-14-8)</b>	
EC50 - Crustacea [1]	10 – 100 mg/l daphnia magna
EC50 - Other aquatic organisms [1]	10 – 100 mg/l desmodesmus subspicatus
NOEC (acute)	48h 1 mg/l daphnia magna
<b>2,2'-iminodiethanol (111-42-2)</b>	
LC50 - Fish [1]	96h 460 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 30 mg/l Ceriodaphnia dubia
EC50 - Other aquatic organisms [1]	72h 9,5 mg/l pseudokirchneriella subcapitata
NOEC chronic crustacea	1,05 mg/l
<b>12.2. Persistence and degradability</b>	
<b>Propan-2-ol (67-63-0)</b>	
Persistence and degradability	Readily biodegradable.
<b>Pentane (109-66-0)</b>	
Persistence and degradability	Readily biodegradable.
<b>2-butoxyethanol (111-76-2)</b>	
Persistence and degradability	Readily biodegradable.
<b>n-Butylpyrrolidone (3470-98-2)</b>	
Persistence and degradability	biodegradable.
<b>amines, coco alkyl, ethoxylated (12 EO) (61791-14-8)</b>	
Biodegradation	28d 72 % OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D
<b>2,2'-iminodiethanol (111-42-2)</b>	
Persistence and degradability	Readily biodegradable.
<b>12.3. Bioaccumulative potential</b>	
<b>Propan-2-ol (67-63-0)</b>	
Partition coefficient n-octanol/water (Log Pow)	0,05
Partition coefficient n-octanol/water (Log Kow)	< 4
Bioaccumulative potential	No bioaccumulation.
<b>Pentane (109-66-0)</b>	
Bioaccumulative potential	Readily biodegradable.
<b>2-butoxyethanol (111-76-2)</b>	
Bioaccumulative potential	Slightly bioaccumulative.
<b>n-Butylpyrrolidone (3470-98-2)</b>	
Bioaccumulative potential	No bioaccumulation.

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### 12.4. Mobility in soil

#### 2-butoxyethanol (111-76-2)

Ecology - soil Small adsorption.

#### n-Butylpyrrolidone (3470-98-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) 43,2

### 12.5. Results of PBT and vPvB assessment

#### Component

Propan-2-ol (67-63-0) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Remove to an authorized waste treatment plant. Avoid release to the environment.  
European List of Waste (LoW) code : 15 01 10\* - packaging containing residues of or contaminated by dangerous substances  
18 01 06\* - chemicals consisting of or containing dangerous substances

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
<b>14.2. UN proper shipping name</b>				
FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol)	FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol)	Flammable liquid, n.o.s. (hexanes, isopropanol)	FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol)	FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol)
<b>Transport document description</b>				
UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II	UN 1993 Flammable liquid, n.o.s. (hexanes, isopropanol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (hexanes, isopropanol), 3, II
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				



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ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

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



Tunnel restriction code (ADR) : D/E  
EAC code : •3YE

#### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 1 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28, TP8  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B

#### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3H

#### Inland waterway transport

Classification code (ADN) : F1

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Special provisions (ADN)	: 274, 601, 640D
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601, 640D
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

### 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)

##### Detergent Regulation (648/2004)

Labelling of contents	
Component	%
aromatic hydrocarbons	≥30%
aliphatic hydrocarbons	15-30%
non-ionic 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)

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### 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

#### France

Occupational diseases	
Code	Description
RG 49	Skin disorders caused by aliphatic, alicyclic amines or ethanolamines
RG 49 BIS	Respiratory disorders caused by aliphatic amines, ethanolamines or isophoronediamine
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), 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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.

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Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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.