

1. Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product name: **TEKINJECT PU 1C SOIL**
Type of product: Mixture

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

Identified uses: Only for professional use.

Details of the supplier of the safety data sheet

Company: TEKINJECT BV
Kruisblok 6
BE - 2320 HOOGSTRATEN
E-mail address: info@tekinject.com

Emergency telephone number

24-hours emergency number: +32 494 239 441

National poison information service: This is a generic EU Safety Data Sheet. Consult your specific member state version for this information.

2. Hazard Identification**Classification according to Regulation (EC) No 1272/2008**

GHS08 health hazard

Resp. Sens. 1	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 2	H351 Suspected of causing cancer.
STOT RE2	H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute tox. 4	H332 Harmful if inhaled.
Skin irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.

Label elements**· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

GHS 08



GHS 07

· Signal word: Danger**· Hazard-determination components of labeling:**

Diphenylmethanediisocyanate, isomers and homologues.

Isocyanic acid, polymethylenepolyphenylene ester, polymer with . alpha. – hydro. – omega – hydroxypolyoxy(methyl-1,2-ethanediyl)

4,4'-methylenediphenyl diisocyanate

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)fenylisocyanate

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements:

P260 Do not breathe dust/mist/fume/gas/vapours/spray.

P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P284 In case of inadequate ventilation, wear respiratory 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.

P403+P233 Store in well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.





· Additional information: Contains isocyanates. May produce an allergic reaction.**· Other hazards****· Results of PBT and vPvB assessment:**

· **PBT:** Not applicable

· **vPvB:** Not applicable

3. Composition/information on ingredients

- **Description:** mixture of substances with nonhazardous additions.

Dangerous components :			
CAS 9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	 Resp. Sens. 1, H334 ; Carc. 2, H351 ; STOT RE 2, H373  Acute tox. 4, H332 ; Skin Irritant 2, H315 ; eye Irrit. 2, H319 ; skin sense. 1, H317 ; STOT SE3 H335	30 – 60 %
EC No : 905-806-4	Reaction mass of 4'4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate.	 Resp. Sens. 1, H334 ; Carc. 2, H351 ; STOT RE 2, H373  Acute tox. 4, H332 ; Skin Irritant 2, H315 ; eye Irrit. 2, H319 ; skin sense. 1, H317 ; STOT SE3 H335	5 – 20 %

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. First aid measures

- **Description of first aid measures.**
- **General information:** Symptoms of poisoning may even occur after several hours; therefor medical observation for at least 48 hours after the accident is recommended.
- **After inhalation:** Supply fresh air and to be sure call for a doctor. In case of unconsciousness place the patient in stable position for transportation.
- **After skin contact:** Rinse and wash with water and soap.
- **After eye contact:** Rinse opened eye for several minutes under running water, then consult a doctor.
- **After swallowing:** If symptoms persist, consult a doctor.

5. Fire-fighting measures

- **Extinguishing media.**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture:** no relevant information available.
- **Advise for firefighters:** No relevant information available.
- **Protective equipment:** Mouth respiratory protective device.

6. Accidental releases measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **References to other sections**
 See section 7 for information and safe handling.
 See section 8 for information on personal protection equipment.
 See section 13 for disposal information.

7. Handling and storage

- **Precautions for safe handling:** ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about fire- and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities.**
- **Storage:** No special requirements
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s):** No further relevant information available.

8. Exposure control/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Control parameters**

Ingredients with limit values that require monitoring at the workplace:	
9016-87-9 diphenylmethanediisocyanate, isomers and homologues	
WEL	Short-term value: 0,07 mg/m ³ Long-term value: 0,02 mg/m ³ Sen; as -NCO

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment.**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages, and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before break and at the end of the work.
 Avoid contact with eyes and skin.
- **Respiratory protection:**
 In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protection device.
- **Protection of hands:**



Protective gloves

The glove material must be impermeable and resistant to the product/the substances/the preparation. Due to missing tests no recommendation to the glove material can be given. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.
- **Eye protection:**



Tightly sealed goggles.

9. Physical and technical properties

· Information on basic physical and chemical properties	
· General information	
· Appearance:	
Form	Liquid
Colour	Brown
Odour	Characteristic.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.
· Ignition temperature	400 °C
· Flash point:	Not applicable
· Flammability (solid,gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits :	
Lower:	0 Vol %
Upper:	0 Vol %
· Vapour pressure at 20 °C:	Not determined.
· Density at 20 °C:	1,1 g/cm ³
· Relative density:	Not determined.
· Vapour density :	Not determined.
· Evaporation rate:	Not determined.
· Solubility in/miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	25 mPa.s
Kinematic:	Not determined.
· Solvent content:	
Organic solvent:	0,0 %
VOC (EC):	0,00 %
Other information:	No further relevant information.

10. Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specification.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition product known.

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity :** Harmfull if swallowed

LD/LC50 values relevant for classification:		
9016-87-9 diphenylmethanediisocyanate, isomers and homologues		
Oral	LD50	1,311 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (Rabbit)
Reaction mass of 4,4'-methylenediphenyldiisocyanate and o-(p-isocyanatobenzyl)phenylisocyanate		
Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>9,400 mg/kg (Rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation :**
Causes skin irritation.
- **Serious eye damage/irritation:**
Causes serious eye irritation.
- **Respiratory or skin sensitization:**
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- **CMR effect (carcinogenity, mutagenicity and toxicity for reproductions):**
- **Germ cell mutagenicity:** based on available data, the classification criteria are not met.
- **Carcinogenicity:** suspected of causing cancer.
- **Reproductivity toxicity:** based on available data, the classification criteria are not met.
- **STOT-single exposure:** May cause respiratory irritation.
- **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** based on available data, the classification criteria are not met.

12. Ecological information

Toxicity

Aquatic toxicity	
9016-87-9 Diphenylmethanediisocyanate, isomers and homologues	
LC50/96 h	>1,000 mg/l (zebrafish)
EC50/24 h	>1,000 mg/l (daphnia)
EC50/96 h	>1,000 mg/l (fish)
EC50/72 h	>1,640 mg/l (alga)
Reaction mass of 4,4'-methylenediisocyanate and o-(p-isocyanatobenzyl)phenyldiisocyanate	
LC50/96 h	>1,000 mg/l (fish)
EC50/24 h	>1,000 mg/l (daphnia)

- **Persistence and degradability:** No further relevant information available.
- **Behaviour in environmental systems:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects:** No further relevant information available.
- **Additional ecological information:** No further relevant information available.
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water source or sewage system.
- **Results of PBT and vPvB assessments:**
PBT: not applicable.
vPvB: not applicable.
Other adverse effects: No further relevant information available.

13. Disposal consideration

- **Waste treatment methods**
- **Recommendation :**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agents:** water, if necessary together with cleansing agent.

14. Transport information

· UN-number	
· ADR, IMDG, IATA	Not regulated
· UN proper shipping name	
· ADR, IMDG, IATA	Not regulated
· Transport hazard class(es)	
· ADR, AND, IMDG, IATA	Not regulated
· Class	
· Packing group	
· ADR; IMDG, IATA	Not regulated
· Environmental hazards :	Not regulated
· Special precautions for user	Not applicable
· Transport additional information :	Not applicable
· UN « Model regulation » :	Not regulated

15. Regulatory information

Safety, health and environmental regulations: legislation specific for the product.

Directive 2012/18/EU

Named dangerous substances – ANNEX 1: None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

Chemical safety assessment: A chemical Safety Assessment has not been carried out.

16. Additional information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases referred to under sections 2 and 3:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ADR: European agreement concerning the International Carriage of Dangerous Goods by road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and labelling of chemicals.

EINECS: European Inventory of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC : Volatile Organic Compounds (USA, EU)

LC50 : Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – inhalation – Category 4.

Skin Irrit. 2: Skin corrosion/irritation – Category 2.

Eye Irrit. 2 : Serious eye damage/eye irritation – Category 2.

Resp. Sens. 1: Respiratory sensitisation – Category 1.

Resp. Sens. 1B : Respiratory sensitisation – Category 1B.

Skin Sens. 1: Skin sensitisation – Category 1.

Skin Sens. 1B : Skin sensitisation – Category 1B.

Carc. 2 : Carcinogenicity – Category 2.

STOT SE3 : Specific target organ toxicity (single exposure) – Category 3.

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2.

1. Identification of the substance/mixture and of the company/undertaking**Product identifier**

Product name: **TEKINJECT PU 1C SOIL CAT**
Type of product : Mixture

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

Identified uses: Only for professional use.

Details of the supplier of the safety data sheet

Company: TEKINJECT BV
Kruisblok 6
BE - 2320 HOOGSTRATEN
E-mail address: info@tekinject.com

Emergency telephone number

24-hours emergency number: +32 494 239 441

National poison information service: This is a generic EU Safety Data Sheet. Consult your Specific member state version for this information.

2. Hazard Identification**Classification according to Regulation (EC) No 1272/2008**

GHS05 Corrosive

Skin Corr. 1
Eye Dam. 1

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.



GHS09 Environment

Aquatic Tox. 1
Aquatic Chronic. 1

H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Label elements**· Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

GHS 05



GHS 09

· Signal word: Danger**· Hazard-determination components of labeling:**

Hexadecyldimethylamine

Hazard statements:

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements:

P260 Do not breathe dust/mist/fume/gas/vapours/spray.

P303 + P361 + P353: IF ON SKIN (or hair): Immediately take off all contaminated clothes. Rinse skin with water (or shower).

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE/doctor.

P321 Specific treatment (see on this label)

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards**· Results of PBT and vPvB assessment:**



· **PBT:** Not applicable

· **vPvB:** Not applicable

3. Composition/information on ingredients

Description: mixture of substances with nonhazardous additions.

Dangerous components :

CAS : 112-69-6	Hexadecyldimethylamine	 	20 - 45 %
		Skin Corr. 1A, H314; Aquatic Acute 1, H400; aquatic chronic. 1, H410; Acute Tox. 4, H302	

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. First aid measures

- **Description of first aid measures.**
- **General information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefor medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air. In case of unconsciousness place the patient stable inside position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water, then consult a doctor.
- **After swallowing:** Call for a doctor immediately.

5. Fire-fighting measures

- **Extinguishing media.**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture:** no relevant information available.
- **Advise for firefighters:** No relevant information available.
- **Protective equipment:** No special measures required.

6. Accidental releases measures

- **Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Inform respective authorities in case of seepage into water or sewage system. Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **References to other sections**
 See section 7 for information and safe handling.
 See section 8 for information on personal protection equipment.
 See section 13 for disposal information.

7. Handling and storage

- **Precautions for safe handling:** ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about fire- and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities.**
- **Storage:** No special requirements
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Specific end use(s):** No further relevant information available.

8. Exposure control/personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Control parameters**

Ingredients with limit values that require monitoring at the workplace:	
28553-12-0 Diisononyl phthalate	
WEL	Long-term value: 5 mg/m ³

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment.**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages, and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before break and at the end of the work.
Avoid contact with eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution, use respiratory filter device. In case of intensive or longer exposure, use self-contained respiratory protection device.
- **Protection of hands:**



Protective gloves

The glove material must be impermeable and resistant to the product/the substances/the preparation. Due to missing tests no recommendation to the glove material can be given. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Eye protection:



Tightly sealed goggles.

9. Physical and technical properties

<ul style="list-style-type: none"> · Information on basic physical and chemical properties · General information · Appearance: <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Form</td> <td>Liquid</td> </tr> <tr> <td style="padding-left: 20px;">Colour</td> <td>Transparent</td> </tr> <tr> <td style="padding-left: 20px;">Odour</td> <td>Amine-like.</td> </tr> </table> 		Form	Liquid	Colour	Transparent	Odour	Amine-like.
Form	Liquid						
Colour	Transparent						
Odour	Amine-like.						
· pH-value:	Not determined.						
<ul style="list-style-type: none"> · Change in condition <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Melting point/freezing point:</td> <td>Not determined.</td> </tr> <tr> <td style="padding-left: 20px;">Initial boiling point and boiling range:</td> <td>Not determined.</td> </tr> </table> 		Melting point/freezing point:	Not determined.	Initial boiling point and boiling range:	Not determined.		
Melting point/freezing point:	Not determined.						
Initial boiling point and boiling range:	Not determined.						
· Ignition temperature	400 °C						
· Flash point:	Not applicable						
· Flammability (solid,gas):	Not applicable.						
· Decomposition temperature:	Not determined.						
· Auto-ignition temperature:	Product is not selfigniting.						
· Explosive properties:	Product does not present an explosion hazard.						
<ul style="list-style-type: none"> · Explosion limits : <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Lower:</td> <td>0,3 Vol %</td> </tr> <tr> <td style="padding-left: 20px;">Upper:</td> <td>1,7 Vol %</td> </tr> </table> 		Lower:	0,3 Vol %	Upper:	1,7 Vol %		
Lower:	0,3 Vol %						
Upper:	1,7 Vol %						
· Vapour pressure at 20 °C:	Not determined.						
· Density at 20 °C:	0,97 g/cm ³						
· Relative density:	Not determined.						
· Vapour density :	Not determined.						
· Evaporation rate:	Not determined.						
· Solubility in/miscibility with water:	Not miscible or difficult to mix.						
· Partition coefficient: n-octanol/water:	Not determined.						
<ul style="list-style-type: none"> · Viscosity: <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Dynamic at 20 °C:</td> <td>20 mPa.s</td> </tr> <tr> <td style="padding-left: 20px;">Kinematic:</td> <td>Not determined.</td> </tr> </table> 		Dynamic at 20 °C:	20 mPa.s	Kinematic:	Not determined.		
Dynamic at 20 °C:	20 mPa.s						
Kinematic:	Not determined.						
<ul style="list-style-type: none"> · Solvent content: <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Organic solvent:</td> <td>0,0 %</td> </tr> <tr> <td style="padding-left: 20px;">VOC (EC):</td> <td>0,00 %</td> </tr> <tr> <td style="padding-left: 20px;">Other information:</td> <td>No further relevant information.</td> </tr> </table> 		Organic solvent:	0,0 %	VOC (EC):	0,00 %	Other information:	No further relevant information.
Organic solvent:	0,0 %						
VOC (EC):	0,00 %						
Other information:	No further relevant information.						

10. Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specification.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition product known.

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity :** Harmfull if swallowed

LD/LC50 values relevant for classification:		
112-69-6 Hexadecyldimethylamine		
Oral	LD50	1,015 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation :**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**
Causes serious eye damage.
- **Respiratory or skin sensitization:**
based on available data, the classification criteria are not met.
- **CMR effect (carcinogenity, mutagenicity and toxicity for reproductions):**
- **Germ cell mutagenicity:** based on available data, the classification criteria are not met.
- **Carcinogenity:** based on available data, the classification criteria are not met.
- **Reproductivity toxicity:** based on available data, the classification criteria are not met.
- **STOT-single exposure:** based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** based on available data, the classification criteria are not met.
- **Aspiration hazard:** based on available data, the classification criteria are not met.

12. Ecological information

- **Toxicity**




Aquatic toxicity	
112-69-6 Hexadecyldimethylamine	
LC50/96 h	0,256 mg/l (zebrafish)

- **Persistence and degradability:** No further relevant information available.
- **Behaviour in environmental systems:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxicological effects**
- **Remark:** very toxic for fish
- **Additional ecological information:** No further relevant information available.
- **General notes:** Water hazard class 2 (German Regulation) (Self-assessment); Hazardous for water.
Do not allow product to reach ground water, water source or sewage system.
Must not reach sewage water or drainage dith undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.
- **Results of PBT and vPvB assessments:**
PBT: not applicable.
vPvB: not applicable.
- **Other adverse effects:** No further relevant information available.

13. Disposal consideration

- **Waste treatment methods**
- **Recommendation :**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agents:** water, if necessary together with cleansing agent.

14. Transport information

- UN-number	UN2735
- ADR, IMDG, IATA	UN2735
- UN proper shipping name	2735 AMINES, LIQUID, CORROSIVE, N.O.S.
- ADR	(hexadecyldimethylamine), ENVIRONMENTALLY HZARDOUS
- IMGD	AMINES, LIQUID, CORROSIVE, N.O.S. (hexadecyldimethylamine), MARINE POLLUTANT.
- IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (hexadecyldimethylamine)
- Transport hazard class(es)	
- ADR, AND, IMDG	
	 
- Class	8 Corrosive substance
- Label	8
- IATA	
	
- Class	8 Corrosive substance
- Label	8
- Packing group	III
- ADR; IMDG, IATA	III
- Environmental hazards :	Product contains environmentally hazardous substances: hexadecyldimethylamine
- Marine pollutant	Yes
- Special marking (ADR)	Symbol (fish and tree)
- Special precautions for user	Warning: corrosive substances.
- Hazard identification number (Kemler code)	80
- EMS-Number	F-A, S-B
- Segregation groups	Alkalis
- Stowage category	A

· Transport additional information :	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging : 1000 ml
· Transport category	3
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging : 1000 ml
· UN « Model regulation » :	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (hexadecyldimethylamine), 8, III, environmentally hazardous

15. Regulatory information

Safety, health and environmental regulations: legislation specific for the product.

Directive 2012/18/EU

Named dangerous substances – ANNEX 1: None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

Chemical safety assessment: A chemical Safety Assessment has not been carried out.

16. Additional information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases referred to under sections 2 and 3:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: European agreement concerning the International Carriage of Dangerous Goods by road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and labelling of chemicals.

EINECS: European Inventory of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC : Volatile Organic Compounds (USA, EU)

LC50 : Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1A: Skin corrosion – Category 1A

Aquatic Acute 1: toxic to aquatic life – Category 1

Aquatic chronic. 1: toxic to aquatic life with long lasting effect – Category 1

Acute tox. 4: Acute toxicity – Category 4