

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

Product name: **TEKINJECT AC ACCELERATOR**
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**

Not classified.

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

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

Hazard pictograms

None

Hazard statements

None.

Precautionary statements

None.

Additional information

None.

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

PBT: Not applicable

vPvB: Not applicable

TI TEKINJECT

Safety Data Sheet

(EC) No 1907/2006/EC article 31




Version 1.01

TEKINJECT AC ACCELERATOR

09-01-2024

3. Composition/information on ingredients

Description: mixture of substances with nonhazardous additions.

Dangerous components :			
CAS-No : 111-46-6	Diethylene glycol	 Acute Tox. 4, H302	< 20 %
CAS-No : 111-42-2	Diethanolamine	  Acute Tox. 4, H302; Skin Irrit. 2, H315; EYE DAM. 1, H318; STOT RE2, H373;	< 29,9 %
	Water		35 - 70 %

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; therefore medical observation for at least 48 hours after the accident is required.
- **After inhalation:** Supply fresh air. No hazards which require first aid measures.
- **After Skin contact:** Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
- **After eye contact:** Rinse opened eye for several minutes under running water, then consult a doctor.
- **After swallowing:** Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately if symptoms occur.

5. Fire-fighting measures

- **Extinguishing media.**
- **Suitable extinguishing agents:** Foam, Carbon dioxide (CO₂), dry powder or water spray.
- **Special hazards arising from the substance or mixture:** Carbon oxides (CO_x), Nitrogen oxides (NO_x), hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.
- **Advise for firefighters:** No relevant information available.
- **Protective equipment:** Self-contained breathing device.

6. Accidental releases measures

- **Personal precautions, protective equipment and emergency procedures:** Avoid contact with skin and eyes.
- **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	
Diethylene glycol	
Workers	Skin contact: 106 mg/kg/day Inhalation: 60 mg/m ³
Consumers	Skin contact: 53 mg/kg/day Inhalation: 12 mg/m ³
Diethanloamine	
Workers	Skin contact : 0,13 mg/kg/day Inhalation: 1 mg/m ³
Consumer	Ingestion: 0,06 mg/kg/day Skin contact : 0,07 mg/kg/day Inhalation: 0,25 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:**
Not required; except in case of aerosol formation.
- **Protection of hands:**
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: <ul style="list-style-type: none"> Form: Liquid. Colour: Clear to slightly yellow. Odour: Characteristic. 	
· pH-value:	7 - 11
<ul style="list-style-type: none"> · Change in condition <ul style="list-style-type: none"> Melting point/freezing point: < 0 °C Initial boiling point and boiling range: > 100 °C · Flash point : Does not flash · 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 : <ul style="list-style-type: none"> Lower: No data available Upper: No data available. · Vapour pressure at 20 °C: Not determined · Density at 20 °C: 1,00 – 1,20 g/cm³. · Relative density: Not determined. · Vapour density : Not determined. · Evaporation rate: Same as water. · Solubility in/miscibility with water: Not miscible or difficult to mix. · Partition coefficient: n-octanol/water: Not determined. · Viscosity: <ul style="list-style-type: none"> Dynamic at 20 °C: No data available. Kinematic: Not determined. · Solvent content: <ul style="list-style-type: none"> Organic solvent: Not determined. VOC (EC): Not determined. Other information: No further relevant information. 	

10. Stability and reactivity

- **Reactivity:** Stable at normal conditions.
- **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:** Incompatible with strong acids and oxidizing agents.

11. Toxicological information

- Information on toxicological effects

- Acute toxicity : Harmful if swallowed

LD/LC50 values relevant for classification:		
Diethylene glycol		
Oral	LD50	25244 mg/kg (Rat)
Dermal	LD50	13300 mg/kg (rabbit)
Diethanolamine		
Oral	LD50	1600 mg/kg (Rat)
Dermal	LD50	12200 mg/kg (rabbit)

- Primary irritant effect:

- Skin corrosion/irritation:

Not irritant.

- Serious eye damage/irritation:

Slight irritant.

- Respiratory or skin sensitization:

Not sensitizing.

- CMR effect (carcinogenicity, mutagenicity and toxicity for reproductions):

- Germ cell mutagenicity: based on available data, the classification criteria are not met.

- Carcinogenicity: based on the 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:	
<i>As supplied</i>	
LC50/96 h	>100 mg/l (zebrafish)
EC50/48 h	>100 mg/l (daphnia)
IC50/72 h	>1,640 mg/l (algae)

- Aquatic toxicity: No further relevant information available.

- 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.

- Ecotoxic effects: No further relevant information available.

- Remarks: none

- 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 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

· <i>UN-Number</i> · <i>ADR, IMDG, IATA</i>	<i>not regulated</i>
· <i>UN proper shipping name</i> · <i>ADR, IMDG, IATA</i>	<i>not regulated</i>
· <i>Transport hazard class(es)</i> · <i>ADR, ADN, IMDG, IATA</i> · <i>Class</i>	<i>not regulated</i>
· <i>Packing group</i> · <i>ADR, IMDG, IATA</i>	<i>not regulated</i>
· <i>Environmental hazards:</i>	<i>Not applicable.</i>
· <i>Special precautions for user</i>	<i>Not applicable.</i>
· <i>Transport in bulk according to Annex II of Marpol and the IBC Code</i>	<i>Not applicable.</i>
· <i>UN "Model Regulation":</i>	<i>not regulated</i>

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the product

Directive 2012/18/EU

Named dangerous substances - ANNEX I 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.

H318 Causes serious eye damage.

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

H412 Harmful 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

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

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

Eye Dam. 2 : Serious eye damage/eye irritation – category 2

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

Data compared to the previous version altered.

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

Product name: **TEKINJECT AC NPS**
Type of product : Substance
Substance name: Sodium persulphate
EC-NO: 231-892-1
CAS-NO: 7775-27-1

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**

GHS03 Oxidizing

Ox. Sol. 3 H272 May intensify fire; oxidiser



GHS08 health hazard

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE2 H335 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute tox. 4	H332 Harmful if swallowed.
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 03



GHS 08



GHS 07

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

Sodium persulphate

Hazard statements:

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H315 Causes skin irritation

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation.

Precautionary statements:




- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P220 Keep/store away from combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.
- P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 if skin irritation occurs: get medical advice/attention.
- P337 + P313 if eye irritation persists: Get medical advice/attention.
- P342 + P311 if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Additional information:

- **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 7775-27-1	Sodium persulphate	 Ox. Sol. 2, H272  Acute Tox. 4 ; H302, Skin Irrit. 2, H315; STOR SE2, H335  Acute tox. 4, H332 ; Skin Irritant 2, H319 ; Skin Sens. 1 , H317 ; STOT SE3, H335	100 %

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.
- **After inhalation:** Supply fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a doctor.
- **After skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately if irritation develops and persists.
- **After eye contact:** immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get prompt medical attention.
- **After swallowing:** Rinse mouth with water. Drink plenty of water. Get medical attention immediately.

5. Fire-fighting measures

- **Extinguishing media.**
- **Suitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- **Special hazards arising from the substance or mixture:** Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), sulfur oxides (SO_x)
- **Advise for firefighters:** No relevant information available.
- **Protective equipment:** No special measures required.

6. Accidental releases measures

- **Personal precautions, protective equipment and emergency procedures:** Do not breath dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:** Sweep up and shovel into suitable containers for disposal. 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. Keep away from direct sunlight.
- **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**
- **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 complying with EN 374.

Eye protection:

Tightly sealed goggles.

9. Physical and technical properties

<ul style="list-style-type: none"> · Information on basic physical and chemical properties 	
<ul style="list-style-type: none"> · General information 	
<ul style="list-style-type: none"> · Appearance: 	
Form	Powder
Colour	White
Odour	None
· pH-value:	4.3
<ul style="list-style-type: none"> · Change in condition 	
Melting point/freezing point:	180 °C
Initial boiling point and boiling range:	Not determined.
· Ignition temperature	Not applicable.
· 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 : 	
Lower:	Not determined
Upper:	Not determined
· Vapour pressure at 20 °C:	Not determined.
· Density at 20 °C:	Not determined.
· Relative density:	2.59.
· Vapour density :	Not determined.
· Evaporation rate:	Not determined.
· Solubility in/miscibility with water:	Soluble in water. 556 g/L @ 20 °C
· Partition coefficient: n-octanol/water:	Not determined.
<ul style="list-style-type: none"> · Viscosity: 	
Dynamic at 20 °C:	Not applicable.
Kinematic:	Not determined.
<ul style="list-style-type: none"> · Solvent content: 	
Organic solvent:	No data available
VOC (EC):	No data available
Other information:	No further relevant information.

10. Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under recommended storage conditions.
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specification.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Keep away from heat and sources of ignition. Protect from light.
- **Incompatible materials:** Acids and bases. Oxidizing agents. Reducing agents. Amines and alcohols causes exothermic reactions. Metals.
- **Hazardous decomposition products:** Carbon oxides (Cox), Nitrogen oxides (NOx), sulfur oxides (SOx).

11. Toxicological information

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

LD/LC50 values relevant for classification:		
7775-27-1 Sodium persulphate		
Oral	LD50	895 - 920 mg/kg (rat)

- Primary irritant effect:**
- Skin corrosion/irritation :**
Repeated or prolonged contact causes sensitization, asthma and eczemas. May cause sensitization by inhalation and skin contact.
- Serious eye damage/irritation:**
Irritating to eyes.
- Respiratory or skin sensitization:**
Repeated or prolonged contact causes sensitization, asthma symptoms. May cause sensitization by inhalation.
- CMR effect (carcinogenity, mutagenicity and toxicity for reproductions):**
- Germ cell mutagenicity:** based on available data, the classification criteria are not met.
- Carcinogenicity:** No data available.
- Reproductivity toxicity:** based on available data, the classification criteria are not met.
- STOT-single exposure:** Irritating to respiratory tract.
- STOT-repeated exposure:** No known effects.
- Aspiration hazard:** based on available data, the classification criteria are not met.

12. Ecological information

- Toxicity


Aquatic toxicity	
7775-27-1 Sodium persulphate	
LC50/96 h	163 mg/l (Oncorhynchus mykiss)
EC50/48 h	133 mg/l (daphnia magna)

- 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.
- Ecotoxic effects:** No further relevant information available.
- Additional ecological information:** No further relevant information available.
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	UN 1505
- UN proper shipping name - ADR - IMGD, IATA -	1505 SODIUM PERSULPHATE
- Transport hazard class(es) - ADR, AND, IMDG, IATA	
	
- Class - label	5.1 Oxidizing substances and organic peroxides 5.1 5.1
- Packing group - ADR; IMDG, IATA	III
- Environmental hazards :	Not applicable
- Special precautions for user o EMS-Number o Storage categorie	Warning : oxidizing substances F-A, S-Q A
- Transport additional information : o ADR o Limited quantities (LQ) o Expected quantites (EQ) o Transport category o Tunnel restriction code ▪ IMGD o Limited quantites (LQ) o Expected quantities (EQ)	5 kg Code : E1 Maximum net quantity per inner packaging: 30 g. Maximum net quantity per outer packaging: 1000 g 3 E 5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
- UN « Model regulation » :	UN 1505 Sodium persulfate

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:

H272 May intensify fire ; oxidizer.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation.

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.

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

Ox. Sol. 3: oxidizing solid category 3

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

Skin Irrit. 2 : Skin corrosion/irritation category 2.

Skin Sens. 1: Skin sensitisation – Category 1.

STOT SE2: Expected to be toxic (single exposure) – Category 2.

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

Data compared to the previous version altered.

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

Product name: **TEKINJECT AC 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**

GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

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

Hazard pictograms

GHS 07

· **Signal word:** Warning

· **Hazard-determination components of labeling:**

Poly(oxy-1,2-ethanediyl), a-(1-oxo-2-propen-1-yl)-w-[(1-oxo-2-propen-1-yl)oxy]-2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

· **Hazard statements:**

H317 May cause an allergic skin reaction.

· **Precautionary statements:**

P280 Wear protective gloves, wear eye protection/face protection.

P305+P352 IF IN SKIN: wash with plenty of soap and water

P333+P313 If skin irritation or rash occurs: get medical advise/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

· **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 : 72275-82-2 EC-no : 247-118-0	Poly(oxy-1,2-ethanediyl), a-(1-oxo-2-propen-1-yl)-w-((1-oxo-2-propen-1-yl)oxyl)	 Skin sense. 1B, H317; Eye Irrit. 2, H319	<10 %
EC-no : 452-170-4	2-propen-1-aminium, N,N,N-tri-2-propen-1-yl, chloride	 Skin sense. 1B, H317; Aquatic chronic 2, H411	<1 %

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 by the product.
- **After inhalation:** Supply fresh air and to be sure call for a doctor. In case of unconsciousness place the patient in stable side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continuous, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water, then consult a doctor.
- **After swallowing:** Rinse mouth with water. Do NOT induce vomiting. Get medical attention.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

5. Fire-fighting measures

- **Extinguishing media.**
- **Suitable extinguishing agents:** use water spray, alcohol-resistant foam, dry chemical or carbon dioxide..
- **Special hazards arising from the substance or mixture:** Thermal decomposition may produce nitrogen oxides (NO_x), carbon oxides (Cox). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.
- **Advise for firefighters.**
- **Protective equipment:** Wear full protective clothing and self-contained respiratory protective device.

6. Accidental releases measures

- **Personal precautions, protective equipment and emergency procedures:** Avoid contact with the skin and eyes. Avoid breathing vapor or mist.
- **Protective equipment:** Wear adequate personal protective equipment (See section 8)
- **Emergency procedure:** Keep people away from and upwind of spill/leak.
- **Environmental precautions:** Do not allow contact with soil, 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. Avoid contact with skin, eyes and clothing.
- **Information about fire- and explosion protection:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities.**
- **Storage:** Keep in a dry, cool and well-ventilated place. Incompatible with oxidizing agents. Incompatible with strong acids and bases.
- **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. Store in a well-ventilated area.
- **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:**

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-,chloride	
Workers long term system effects	
Inhallation	39,2 mg/m ³
Skin contact	5,6 mg/kg bw/day
PNEC	
Freshwater	0,01 lg/l
Intermittent release	0,096 mg/l
Marine water	0,001 mg/l
Sewage treatment plant	78,4 mg/l
Sediment (freshwater)	1 mg/kg
Sediment (marine water)	0,1 mg/kg
Soil	5 mg/kg
Oral (secondary poisoning)	The product is not expected to bioaccumulate

- **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.
Wash hands before break and at the end of the work.
Avoid contact with eyes and skin.
- **Respiratory protection:**
In case of vapor formation use respirator with organic filter.
- **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	Blue
Odour	Characteristic.
· pH-value:	5 - 8
· Change in condition	
Melting point/freezing point:	< 0 °C
Initial boiling point and boiling range:	> 100 °C
· Flash point :	Does not flash
· Flammability (solid,gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits :	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C:	2,3 kPa
· Density at 20 °C:	1,1 – 1,3 g/cm ³
· Relative density:	Not determined.
· Vapour density :	Not determined.
· Evaporation rate:	Not determined.
· Solubility in/miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	< 1
· Viscosity:	
Dynamic at 20 °C:	5 - 8 mPa.s
Kinematic:	Not determined.

10. Stability and reactivity

- **Reactivity:** stable under recommended storage conditions. Polymerization is initiated by: free radicals, peroxides.
- **Chemical stability:** stable under normal conditions.
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specification.
- **Possibility of hazardous reactions:** Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
- **Conditions to avoid:** No Avoid temperatures above 50 °C.
- **Incompatible materials:** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

11. Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity :** Harmful if inhaled

LD/LC50 values relevant for classification:		
As supplied		
Oral	LD50	> 5000 mg/kg (Rat)
Dermal	LD50	> 5000 mg/kg (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation :** No irritation.
- **Serious eye damage/irritation:** No irritation.
- **Respiratory or skin sensitization:** Sensitizing to skin.
- **CMR effect (carcinogenicity, mutagenicity and toxicity for reproductions):**
- **Germ cell mutagenicity:** based on available data, the classification criteria are not met.
- **Carcinogenicity:** based on the 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	
As supplied	
LC50/96h	>100 mg/l (Danio rerio)
EC50/48 h	>100 mg/l (Daphnia magna)
IC50/72 h	1 – 10 mg/l (Pseudokirchneriella subcapitata)

- **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.
- **Endocrine disrupting properties**
For mor information on endocrine disrupting properties see section 11.
- **Additional ecological information:** No further relevant information available.
- **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
· Packing group · ADR; IMDG, IATA	Not regulated
· Environmental hazards :	Not applicable
· Special precautions for user	Not applicable
· Maritime transport in bulk according to IMO instruments	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:**

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 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 Sens.1 Skin Sensitisation - Category 1

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

Eye Irrit. 2: causes serious eye irritation – Category 2

Aquatic Chronic 2: Toxic to the aquatic environment long term aquatic hazard - Category 2

· **Data compared to the previous version altered.**