

## SAFETY DATA SHEET

## Coal Tar Remover

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

## 1.1. Product identifier

## Trade name

Coal Tar Remover

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

## Relevant identified uses of the substance or mixture

No special

## Uses advised against

No special

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

## Company and address

**Vecom Marine B.V.**

Mozartlaan 3

3144 NA Maassluis

The Netherlands

+31 (0) 10-5930210

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<https://vecom-marine.com>

## Contact person

Vecom Marine B.V.

## E-mail

[sales@vecom-marine.com](mailto:sales@vecom-marine.com)

## Revision

11/04/2022

## SDS Version

2.0

## Date of previous version

11/04/2022 (2.0)

## 1.4. Emergency telephone number

National Poisons Information Centre (NVIC): +31 (0)88-755-8000 (24 hour service)

Only intended to inform professional emergency services in case of acute poisoning.

See section 4 on first aid measures.

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.

Skin Irrit. 2; H315, Causes skin irritation.

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

Eye Dam. 1; H318, Causes serious eye damage.

STOT SE 3; H336, May cause drowsiness or dizziness.

Carc. 2; H351, Suspected of causing cancer.

STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

## Hazard pictogram(s)



#### Signal word

Danger

#### Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)  
 Causes skin irritation. (H315)  
 May cause an allergic skin reaction. (H317)  
 Causes serious eye damage. (H318)  
 May cause drowsiness or dizziness. (H336)  
 Suspected of causing cancer. (H351)  
 May cause damage to organs through prolonged or repeated exposure. (H373)  
 Toxic to aquatic life with long lasting effects. (H411)

#### Safety statement(s)

##### General

-

##### Prevention

Wear eye protection/protective gloves/protective clothing. (P280)  
 Do not breathe vapour/mist. (P260)

##### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing. (P305+P351+P338)  
 Immediately call a POISON CENTER/doctor. (P310)

##### Storage

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

##### Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

#### Hazardous substances

tetrachloroethylene

Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]

Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

2,2'-iminodiethanol;diethanolamine

#### 2.3. Other hazards

##### Additional labelling

Not applicable

##### Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
tetrachloroethylene	CAS No.: 127-18-4 EC No.: 204-825-9 REACH: 01-2119475329-28-XXXX Index No.: 602-028-00-4	40-60%	Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H336 Carc. 2, H351 Aquatic Chronic 2, H411	[1]

Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]	CAS No.: 68334-30-5 EC No.: 269-822-7 REACH: Index No.: 649-224-00-6	15-25%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Acute Tox. 4, H332 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 2, H411
Renewable hydrocarbons (diesel type fraction)	CAS No.: 928771-01-1 EC No.: 618-882-6 REACH: Index No.:	5-10%	EUH066 Asp. Tox. 1, H304
C8-C26 branched and linear hydrocarbons – Distillates	CAS No.: 848301-67-7 EC No.: 481-740-5 REACH: 01-0000020118-77-XXXX Index No.:	5-10%	EUH066 Asp. Tox. 1, H304
Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)	CAS No.: 68155-07-7 EC No.: 268-935-9 REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
2,2'-iminodiethanol;diethanolamine	CAS No.: 111-42-2 EC No.: 203-868-0 REACH: 01-2119488930-28-XXXX Index No.: 603-071-00-1	<1%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361 STOT RE 2, H373

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See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### Other information

[1] European occupational exposure limit

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTER / doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

#### Burns

Not applicable

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds.

Carbon oxides (CO / CO<sub>2</sub>).

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.  
 Avoid inhalation of vapours from spilled material.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

##### Recommended storage material

Always store in containers of the same material as the original container.

##### Storage temperature

Dry, cool and well ventilated

##### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

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

This product should only be used for applications quoted in section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

—  
 tetrachloroethylene

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 275

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 138

Annotations:

H = Special risk of dermal absorption.

Annex XIII of the Working Conditions Regulation, List of legal limit values.

tetrachloroethylene is included in the national list of substances suspected of causing cancer

SZW-lijst van kankerverwekkende stoffen en processen, Ministerie van Sociale Zaken en Werkgelegenheid (Staatscourant 2018 nr. 21)

#### DNEL

Product/substance	tetrachloroethylene
DNEL	1.4 mg/kg bw/day
Route of exposure	Dermal
Duration	Short term – Systemic effects - Workers

Product/substance	tetrachloroethylene
DNEL	10 mg/m <sup>3</sup>

Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	tetrachloroethylene
DNEL	10 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
Product/substance	tetrachloroethylene
DNEL	1.4 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	tetrachloroethylene
DNEL	10 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	tetrachloroethylene
DNEL	10 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	tetrachloroethylene
DNEL	0.7 mg/kg bw/day
Route of exposure	Dermal
Duration	Short term – Systemic effects - General population
Product/substance	tetrachloroethylene
DNEL	5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	tetrachloroethylene
DNEL	0.05 mg/kg bw/day
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	tetrachloroethylene
DNEL	5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
DNEL	4300 mg/m <sup>3</sup> /15 min
Route of exposure	Inhalation
Duration	Short term – Systemic effects - Workers
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the

DNEL	range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
Route of exposure	2.9 mg/kg 8h Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
DNEL	68 mg/m <sup>3</sup> /8h
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
DNEL	2600 mg/m <sup>3</sup> /15 min
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
DNEL	1.3 mg/kg 24h
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
DNEL	20 mg/m <sup>3</sup> /24h
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	4.16 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	73.4 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	0.0936 mg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Long term – Local effects - Workers
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

DNEL	2.5 mg/kg bw/day
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	21.73 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	6.25 mg/kg bw/day
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
DNEL	0.056 mg/cm <sup>2</sup>
Route of exposure	Dermal
Duration	Long term – Local effects - General population
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	1 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	0.75 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	0.13 mg/kg lg/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - Workers
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	0.125 - 0.25 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	0.07 mg/kg lg/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	2,2'-iminodiethanol;diethanolamine
DNEL	0.06 mg/kg lg/dag
Route of exposure	Oral
Duration	Long term – Systemic effects - General population

## PNEC

Product/substance	tetrachloroethylene
PNEC	11.2 mg/l



Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	tetrachloroethylene
PNEC	0.051 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	tetrachloroethylene
PNEC	0.903 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	tetrachloroethylene
PNEC	0.0051 mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	tetrachloroethylene
PNEC	0.0903 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	tetrachloroethylene
PNEC	0.01 mg/kg
Route of exposure	Soil
Duration of Exposure	
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.007 mg/l
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.0007 mg/l
Route of exposure	Marine water
Duration of Exposure	
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.024 mg/l
Route of exposure	Intermittent release
Duration of Exposure	
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	830 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.195 mg/kg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.0195 mg/kg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)
PNEC	0.0348 mg/kg
Route of exposure	Soil
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	0.021 mg/l
Route of exposure	Freshwater
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	0.002 mg/l
Route of exposure	Marine water
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	0.092 mg/kg dg
Route of exposure	Freshwater sediment
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	0.009 mg/kg dg
Route of exposure	Marine water sediment
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	1.63 mg/kg dg
Route of exposure	Soil
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	0.097 mg/l
Route of exposure	Intermittent release
Duration of Exposure	

Product/substance	2,2'-iminodiethanol;diethanolamine
PNEC	100 mg/l
Route of exposure	Sewage treatment plant
Duration of Exposure	

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See

occupational hygiene limit values above.

#### Appropriate technical measures

Do not recirculate outlet air that contain the substances.

#### Hygiene measures

Take off contaminated clothing and wash it before reuse.

#### Measures to avoid environmental exposure


Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment


##### Generally

Use only CE marked protective equipment.



##### Respiratory Equipment

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation	-	-	-	
A	Class 1 (low capacity)	Brown	EN14387	


##### Skin protection

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

##### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	
Polyvinyl alcohol (PVA)	-	> 480	EN374-2, EN374-3, EN388	

##### Eye protection

Type	Standards	
Wear safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Yellow

#### Odour / Odour threshold

Characteristic

#### pH

Testing not relevant or not possible due to nature of the product.

#### Density (g/cm<sup>3</sup>)

1.15 (20 °C)

#### Relative density

1.15 (20 °C)

#### Kinematic viscosity

0.07 cm<sup>2</sup>/s (40 °C)

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

##### Melting point/Freezing point (°C)

Testing not relevant or not possible due to nature of the product.

##### Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

##### Boiling point (°C)

Testing not relevant or not possible due to nature of the product.

##### Vapour pressure

Testing not relevant or not possible due to nature of the product.

##### Relative vapour density

Testing not relevant or not possible due to nature of the product.

##### Decomposition temperature (°C)

Testing not relevant or not possible due to nature of the product.

#### Data on fire and explosion hazards

##### Flash point (°C)

Testing not relevant or not possible due to nature of the product.

##### Ignition (°C)

Testing not relevant or not possible due to nature of the product.

##### Auto flammability (°C)

Testing not relevant or not possible due to nature of the product.

##### Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to nature of the product.

#### Solubility

##### Solubility in water

Testing not relevant or not possible due to nature of the product.

##### n-octanol/water coefficient

Testing not relevant or not possible due to nature of the product.

##### Solubility in fat (g/L)

Testing not relevant or not possible due to nature of the product.

#### 9.2. Other information

##### Other physical and chemical parameters

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. Possibility of hazardous reactions

No special

#### 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Product/substance	tetrachloroethylene
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3000 mg/kgbw
Other information	

Product/substance	tetrachloroethylene
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	10000 mg/kgbw
Other information	

Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5000 mg/kg
Other information	

Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	>1 - <=5 mg/L
Other information	

Product/substance	Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50

Result >2000 mg/kg

Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

Test method

Species

Rat

Route of exposure

Oral

Test

LD50

Result

>5000 mg/kg

Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)

Test method

Species

Rabbit

Route of exposure

Dermal

Test

LD50

Result

>2000 mg/kg

Other information

Product/substance 2,2'-iminodiethanol;diethanolamine

Test method

Species

Rat

Route of exposure

Inhalation

Test

LC50 (8 hours)

Result

0.2 mg/L

Other information

Product/substance 2,2'-iminodiethanol;diethanolamine

Test method

Species

Rat

Route of exposure

Inhalation

Test

LC50 (4 hours)

Result

3.35 mg/L

Other information

Product/substance 2,2'-iminodiethanol;diethanolamine

Test method

Species

Rabbit

Route of exposure

Dermal

Test

LD50

Result

>8200 mg/kg

Other information

Product/substance 2,2'-iminodiethanol;diethanolamine

Test method

Species

Rat

Route of exposure

Oral

Test

LD50

Result

1600 mg/kg

Other information

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

#### Long term effects

**Carcinogenic effects:** This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

**Irritation effects:** This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Neurotoxic effects:** This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### Endocrine disrupting properties

No special

#### Other information

tetrachloroethylene has been classified by IARC as a group 2A carcinogen.

2,2'-iminodiethanol;diethanolamine has been classified by IARC as a group 2B carcinogen.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	tetrachloroethylene
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	5 mg/L
Other information	

Product/substance	tetrachloroethylene
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	8.5 mg/L

Other information

Product/substance      tetrachloroethylene  
 Test method  
 Species                      Algae  
 Compartment  
 Duration                    72 hours  
 Test                          IC50  
 Result                        3.6 mg/L  
 Other information

Product/substance      Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]  
 Test method  
 Species                      Fish  
 Compartment  
 Duration                    No data available.  
 Test                          LL50  
 Result                        >1 -<=10 mg/L  
 Other information

Product/substance      Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]  
 Test method  
 Species                      Crustacean  
 Compartment  
 Duration                    No data available.  
 Test                          LL50  
 Result                        >1 -<=10 mg/L  
 Other information

Product/substance      Fuels, diesel;Gasoil - unspecified;[A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 °C to 357 °C (325 °F to 675 °F).]  
 Test method  
 Species                      Algae  
 Compartment  
 Duration                    No data available.  
 Test                          LL50  
 Result                        >1 -<=10 mg/L  
 Other information

Product/substance      Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species                      Fish  
 Compartment  
 Duration                    96 hours  
 Test                          LC50  
 Result                        >1 - 10 mg/L



Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species Fish  
 Compartment  
 Duration 28 days  
 Test NOEC  
 Result 0.32 mg/L  
 Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species Daphnia  
 Compartment  
 Duration 48 hours  
 Test EC50  
 Result >1 - 10 mg/L  
 Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species Daphnia  
 Compartment  
 Duration 21 days  
 Test NOEC  
 Result 0.07 mg/L  
 Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species Algae  
 Compartment  
 Duration 72 hours  
 Test EC50  
 Result >1 - 10 mg/L  
 Other information

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
 Test method  
 Species Bacteria  
 Compartment  
 Duration 16 hours  
 Test EC10  
 Result 0.83 mg/L  
 Other information

Product/substance 2,2'-iminodiethanol;diethanolamine  
 Test method  
 Species Fish  
 Compartment  
 Duration 96 hours  
 Test LC50

Result 1460 mg/L  
Other information

Product/substance 2,2'-iminodiethanol;diethanolamine  
Test method  
Species Algae  
Compartment  
Duration 96 hours  
Test EC50  
Result 2.2 mg/L  
Other information

Product/substance 2,2'-iminodiethanol;diethanolamine  
Test method  
Species Daphnia  
Compartment  
Duration 48 hours  
Test EC50  
Result 55 mg/L  
Other information

Product/substance 2,2'-iminodiethanol;diethanolamine  
Test method  
Species Daphnia  
Compartment  
Duration 21 days  
Test NOEC  
Result 0.78 mg/L  
Other information

## 12.2. Persistence and degradability

Product/substance tetrachloroethylene  
Biodegradable No  
Test method  
Result

Product/substance Amides, C8-18 and C18-unsatd., N,N-bis(hydroxyethyl)  
Biodegradable Yes  
Test method OECD 301 B  
Result >60 %; 28 d; aerobic

Product/substance 2,2'-iminodiethanol;diethanolamine  
Biodegradable Yes  
Test method  
Result

## 12.3. Bioaccumulative potential

Product/substance tetrachloroethylene  
Test method  
Potential bioaccumulation No data available  
LogPow 2.53

BCF No data available  
Other information

#### 12.4. Mobility in soil

tetrachloroethylene  
LogKoc = 141, Low mobility potential.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. Endocrine disrupting properties

No special

#### 12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 7 - Carcinogenic

HP 13 - Sensitising

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

Not applicable



#### Specific labelling

Not applicable




#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es) Labels: 6.1 Classification code: T1	14.4 PG*	14.5 Env**	Other information
ADR	UN2810	TOXIC LIQUID, ORGANIC, N.O.S.	 	III	Yes	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN2810	TOXIC LIQUID, ORGANIC, N.O.S.	Class: 6.1 Labels: 6.1 Classification code: T1	III	Yes	Limited quantities: 5 L EmS: F-A S-A See below for additional information.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
		 			
IATA UN2810	TOXIC LIQUID, ORGANIC, N.O.S.	Class: 6.1 Labels: 6.1 Classification code: T1	III	Yes	See below for additional information.
					

\* Packing group

\*\* Environmental hazards

#### Additional information

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

#### 14.6. Special precautions for user

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

No data available

### SECTION 15: Regulatory information

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

##### Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### Demands for specific education

No specific requirements

##### SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

##### Additional information

Not applicable

##### Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Working Conditions Act 1998 and latest Working Conditions Decree of 01-01-2021.

Major Accident Hazards Decree 2015.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.  
H226, Flammable liquid and vapour.  
H302, Harmful if swallowed.  
H304, May be fatal if swallowed and enters airways.  
H315, Causes skin irritation.  
H317, May cause an allergic skin reaction.  
H318, Causes serious eye damage.  
H332, Harmful if inhaled.  
H336, May cause drowsiness or dizziness.  
H351, Suspected of causing cancer.  
H361, Suspected of damaging fertility or the unborn child.  
H373, May cause damage to organs through prolonged or repeated exposure.  
H411, Toxic to aquatic life with long lasting effects.

### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CE = Conformité Européenne  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CSA = Chemical Safety Assessment  
CSR = Chemical Safety Report  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EINECS = European Inventory of Existing Commercial chemical Substances  
ES = Exposure Scenario  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation

methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

▼ The safety data sheet is validated by

RK

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NL-en