

## SAFETY DATA SHEET

## Vecinox Pickling Liquid 30

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

## 1.1. Product identifier

## Trade name

Vecinox Pickling Liquid 30

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

## Relevant identified uses of the substance or mixture

Industrial purposes

## 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

19/05/2021 (1.0)

## ▼ 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

Acute Tox. 3; H301, Toxic if swallowed.

Acute Tox. 2; H310, Fatal in contact with skin.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

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

Acute Tox. 3; H331, Toxic if inhaled.

## 2.2. Label elements

## Hazard pictogram(s)



## Signal word

Danger

▼ Hazard statement(s)

- Toxic if swallowed or if inhaled. (H301+H331)
- Fatal in contact with skin. (H310)
- Causes severe skin burns and eye damage. (H314)

Safety statement(s)

General

-

▼ Prevention

- Do not get in eyes, on skin, or on clothing. (P262)
- Wear eye protection/protective gloves. (P280)

▼ Response

- Take off immediately all contaminated clothing and wash it before reuse. (P361+P364)
- 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

- nitric acid ... %
- hydrogen fluoride

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
nitric acid ... %	CAS No.: 7697-37-2 EC No.: 231-714-2 REACH: 01-2119487297-23 Index No.: 007-004-00-1	15-25%	EUH071 Ox. Liq. 2, H272 Met. Corr. 1, H290 Skin Corr. 1A, H314 Acute Tox. 3, H331	[1]
hydrogen fluoride	CAS No.: 7664-39-3 EC No.: 231-634-8 REACH: 01-2119458860-33-0011 Index No.: 009-002-00-6	3-5%	Acute Tox. 2, H300 Acute Tox. 1, H310 Skin Corr. 1A, H314 Acute Tox. 2, H330	[1]

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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 injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

### 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

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

### Burns

Not applicable

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

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.

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

IF exposed or concerned:

Get immediate 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.

Nitrogen oxides (NO<sub>x</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.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

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

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

Room temperature 15 to 25°C

#### 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

—  
nitric acid ... %

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1,3

—  
hydrogen fluoride

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 1

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

#### DNEL

Product/substance	nitric acid ... %
DNEL	2.6 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term

Product/substance	nitric acid ... %
DNEL	2.6 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term

Product/substance	hydrogen fluoride
DNEL	2.5 mg/m <sup>3</sup>

Route of exposure	Inhalation
Duration	Short term
Product/substance	hydrogen fluoride
DNEL	2.5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term
Product/substance	hydrogen fluoride
DNEL	1.5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects
Product/substance	hydrogen fluoride
DNEL	1.5 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects
Product/substance	hydrogen fluoride
DNEL	0.03 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Systemic effects - General population
Product/substance	hydrogen fluoride
DNEL	0.01 mg/kg
Route of exposure	Oral
Duration	Short term – Systemic effects - General population
Product/substance	hydrogen fluoride
DNEL	1.25 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Short term – Local effects - General population
Product/substance	hydrogen fluoride
DNEL	0.03 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Product/substance	hydrogen fluoride
DNEL	0.01 mg/m <sup>3</sup>
Route of exposure	Oral
Duration	Long term – Systemic effects - General population
Product/substance	hydrogen fluoride
DNEL	1.25 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Local effects - General population

#### PNEC

Product/substance	hydrogen fluoride
PNEC	0.9 mg/l
Route of exposure	Freshwater

Duration of Exposure

Product/substance      hydrogen fluoride  
 PNEC                        0.9 mg/l  
 Route of exposure        Marine water  
 Duration of Exposure

Product/substance      hydrogen fluoride  
 PNEC                        0.9 mg/l  
 Route of exposure        Intermittent release  
 Duration of Exposure

Product/substance      hydrogen fluoride  
 PNEC                        0.766 mg/kg wwt  
 Route of exposure        Freshwater sediment  
 Duration of Exposure

Product/substance      hydrogen fluoride  
 PNEC                        11 mg/kg w  
 Route of exposure        Soil  
 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

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

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
No special when used as intended.			

Skin protection

Recommended	Type/Category	Standards
No special when used as intended	-	-

### ▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	-	-	EN374-2



### 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

Colourless

#### Odour / Odour threshold

Sour

#### pH

< 2

#### ▼ Density (g/cm<sup>3</sup>)

1.1 - 1.2 (20 °C)

#### ▼ Kinematic viscosity

1 mPa.s (20 °C)

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

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

0

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

Does not apply to liquids.

#### ▼ Boiling point (°C)

100

#### 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

Soluble

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

No special

### 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	nitric acid ... %
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	2.65 mg/L
Other information	

Product/substance	hydrogen fluoride
Test method	
Species	
Route of exposure	Inhalation
Test	LC50 5min
Result	>4970 mg/L
Other information	

Product/substance	hydrogen fluoride
Test method	
Species	
Route of exposure	Inhalation
Test	LC50 15min
Result	>2690 mg/L
Other information	

Product/substance	hydrogen fluoride
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Test method  
 Species  
 Route of exposure Inhalation  
 Test LC50 60min  
 Result >1310 mg/L  
 Other information

Product/substance hydrogen fluoride  
 Test method  
 Species  
 Route of exposure Inhalation  
 Test LC50 30min  
 Result >2040 mg/L  
 Other information

Toxic if swallowed.  
 Fatal in contact with skin.  
 Toxic if inhaled.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

▼ **Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory sensitisation**

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

**Skin sensitisation**

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

**Germ cell mutagenicity**

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

**Carcinogenicity**

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

**Reproductive 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.

**11.2. Information on other hazards**

**Long term effects**

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.

**Endocrine disrupting properties**

No special

**Other information**

No special

**SECTION 12: Ecological information**

**12.1. Toxicity**

Product/substance nitric acid ... %  
 Test method

Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	> 100 mg/L
Other information	

Product/substance	nitric acid ... %
Test method	
Species	Daphnia
Compartment	
Duration	24 hours
Test	EC50
Result	180 mg/L
Other information	

Product/substance	hydrogen fluoride
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	51 mg/L
Other information	

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 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

No special

### SECTION 13: Disposal considerations

#### ▼ 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 6 - Acute toxicity

HP 8 - Corrosive

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)	14.4 PG*	14.5 Env**	Other information
ADR	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid ... %, hydrogen fluoride)	Class: 8 Labels: 8+6.1 Classification code: CT1  	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid ... %, hydrogen fluoride)	Class: 8 Labels: 8+6.1 Classification code: CT1  	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN2922	CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid ... %, hydrogen fluoride)	Class: 8 Labels: 8+6.1 Classification code: CT1  	II	No	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

H2 - ACUTE TOXIC, Qualifying quantity (lower-tier): 50 tonnes / (upper-tier): 200 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

EUH071, Corrosive to the respiratory tract.

H272, May intensify fire; oxidiser.

H290, May be corrosive to metals.

H300, Fatal if swallowed.

H310, Fatal in contact with skin.

H314, Causes severe skin burns and eye damage.

H330, Fatal if inhaled.

H331, Toxic if inhaled.

#### ▼ 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 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