

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 11/11/2022 Revision date: 4/24/2025 Supersedes version of: 6/15/2023 Version: 2.0

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

## **1.1. Product identifier**

Substance name : Zenolide (IFF)
IUPAC name : 1,4-dioxacyclohexadecane-5,16-dione
EC-No. : 259-423-6
CAS-No. : 54982-83-1
REACH registration No. : 01-2119524000-64
Product code : 23092
Formula : C14H24O4
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

Professional use,Consumer useFragrance raw material

## 1.2.2. Uses advised against

No additional information available

De Hekserij Spoorstraat 57 8271 RG IJsselmuiden Nederland T +31 383 557 927 hekserij@hekserij.nl, www.hekserij.nl

### 1.4. Emergency telephone number

No additional information available

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture         Classification according to Regulation (EC) No. 1272/2008 [CLP]         Hazardous to the aquatic environment – Acute Hazard,       H400         Category 1         Hazardous to the aquatic environment – Chronic Hazard,       H410         Category 1         Full text of H- and EUH-statements: see section 16         Adverse physicochemical, human health and environmental effects         Very toxic to aquatic life with long lasting effects.         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [CLP]         Hazard pictograms (CLP)       :         GHS09       :         Signal word (CLP)       :		
Hazardous to the aquatic environment – Acute Hazard, H400 Category 1 Hazardous to the aquatic environment – Chronic Hazard, H410 Category 1 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Very toxic to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Hazard pictograms (CLP)	2.1. Classification of the substance or mixture	
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Hazardous to the aquatic environment – Chronic Hazard, H410 Category 1 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects Very toxic to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS09	•	H400
Adverse physicochemical, human health and environmental effects Very toxic to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)	Hazardous to the aquatic environment – Chronic Hazard,	H410
Very toxic to aquatic life with long lasting effects. 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS09	Full text of H- and EUH-statements: see section 16	
2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS09	Adverse physicochemical, human health and environme	ental effects
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS09	Very toxic to aquatic life with long lasting effects.	
Hazard pictograms (CLP) : GHS09	2.2. Label elements	
GHS09	Labelling according to Regulation (EC) No. 1272/2008	CLP]
Signal word (CLP) : Warning		<b>U</b> GHS09

Signal word (CLP) Hazard statements (CLP)

: H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	P273 - Avoid release to the environment.
	P391 - Collect spillage.
	P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type Name CAS-No. EC-No.	: Mono-constituent : Zenolide (IFF) : 54982-83-1 : 259-423-6		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,4-dioxacyclohexadecane-5,16-dione	CAS-No.: 54982-83-1 EC-No.: 259-423-6 REACH-no: 01-2119524000- 64	90 – 100	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

## 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measu	res	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in cas	e of fire : Toxic fumes may be released.	

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## 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	<ul> <li>Collect spillage.</li> <li>Take up liquid spill into absorbent material.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ul>	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and stor	age	
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in a well-ventilated place. Keep cool.	

7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

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3.1.4. DNEL and PNEC		
Zenolide (IFF) (54982-83-1)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	176 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	30 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	52 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	30 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.88 µg/l	
PNEC aqua (marine water)	0.088 µg/I	
PNEC (Sediment)		
PNEC sediment (freshwater)	162 μg/kg dw	
PNEC sediment (marine water)	16.2 µg/kg dw	
PNEC (Soil)		
PNEC soil	4.45 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	1.8 mg/l	

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:** Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

Hand protection: Protective gloves

## 8.2.2.3. Respiratory protection

## Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

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#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Molecular mass	: 256.2 g/mol
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 16.72 °C Atm. press.: 1013,2 hPa Decomposition: 'no' Sublimation: 'no'
Freezing point	: No data available
Boiling point	: 337.3 °C Atm. press.: 101325 Pa Decomposition: 'no'
Flash point	: 166 °C Atm. press.: 1013,25 hPa
Auto-ignition temperature	395 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 0.028 Pa Temp.: 25 °C
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1.06
Solubility	: Water: 0.075 g/l Temp.: 20°C
Partition coefficient n-octanol/water (Log Pow)	: 3.65
Viscosity, kinematic	: 91.448 mm²/s
Viscosity, dynamic	: 96.935 mPa⋅s Temp.: '20°C' Parameter: 'dynamic viscosity (in mPa s)'
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

## 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

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

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SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity (dermal)	Not classified Not classified Not classified	
1,4-dioxacyclohexadecane-5,16-dione (54982-	83-1)	
LD50 oral rat	4500 mg/kg OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal	> 2000 mg/kg bodyweight	
Skin corrosion/irritation :	Not classified	
Serious eye damage/irritation :	Not classified	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity :	Not classified	
Reproductive toxicity :	Not classified	
1,4-dioxacyclohexadecane-5,16-dione (54982-83-1)		
NOAEL (animal/male, F0/P)	300 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
NOAEL (animal/female, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
Zenolide (IFF) (54982-83-1)		
Viscosity, kinematic	91.448 mm²/s	
1,4-dioxacyclohexadecane-5,16-dione (54982-83-1)		
Viscosity, kinematic	91.276 – 91.969 mm²/s	

## **SECTION 12: Ecological information**

#### 12.1. Toxicity : Very toxic to aquatic life with long lasting effects. Ecology - general Hazardous to the aquatic environment, short-term : Very toxic to aquatic life. (acute) Hazardous to the aquatic environment, long-term : Very toxic to aquatic life with long lasting effects. (chronic) 1,4-dioxacyclohexadecane-5,16-dione (54982-83-1) LC50 - Fish [1] 0.88 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) EC50 - Crustacea [1] > 14 mg/l Test organisms (species): Daphnia magna EC50 72h - Algae [1] 17 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) EC50 72h - Algae [2] 1.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) 0.61 mg/l OECD Guideline 201 (Algal Growth Inhibition Test) NOEC chronic algae

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12.2. Persistence and degradability		
Zenolide (IFF) (54982-83-1)		
Persistence and degradability Not rapidly degradable		
1,4-dioxacyclohexadecane-5,16-dione (54982-83-1)		
Persistence and degradability	Not rapidly degradable	
12.3. Bioaccumulative potential		
Zenolide (IFF) (54982-83-1)		
Partition coefficient n-octanol/water (Log Pow)	3.65	
1,4-dioxacyclohexadecane-5,16-dione (54982-83-1)		
Partition coefficient n-octanol/water (Log Pow)	3.65	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		

12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

## **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	·		·	
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shippin	g name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF))	Environmentally hazardous substance, liquid, n.o.s. (Zenolide (IFF))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF))
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Zenolide (IFF)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zenolide (IFF)), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	n available			
14.6. Special precaution	s for user			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (A Mixed packing provisions (AD Portable tank and bulk contain Portable tank and bulk contain (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage Special provisions for carriage and handling (ADR) Hazard identification number of Orange plates	: 5I : E <sup>2</sup> DR) : Pf R) : M her instructions (ADR) : T4 her special provisions : TF : LC : AT : 3 e - Packages (ADR) : V <sup>2</sup> e - Loading, unloading : C <sup>1</sup> (Kemler No.) : 90	r4, 335, 375, 601 1 001, IBC03, LP01, R001 P1 P19 4 P1, TP29 GBV F		
Tunnel restriction code (ADR)  Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Special packing provisions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)  Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA) PCA max net quantity (IATA)		74, 335, 969 L P01, P001 P1 C03 L P1, TP29 A F I 964 9kgG		

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	0 ( )
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L
Inland waterway transport	
Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Poil transment	
Rail transport	: M6
Classification code (RID)	
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	
Special provisions for carriage - Loading, unloading	
and handling (RID)	
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	Zenolide (IFF) ; 1,4- dioxacyclohexadecane- 5,16-dione	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

## **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

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### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

#### Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	

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Abbreviations and acronyms:		
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.