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		according to Regulation (EC)	No 1907/2006 (REACH) as	amended		
		Comp	olexone I			
Creat	ion date	26th September 2019				
Revis	ion date	30th April 2024	Version	3.0		
SECT	ION 1: Identification	of the substance/mixture a	nd of the company/und	ertaking		
1.1.	Product identifier		Complexone I	-		
	Substance / mixture		substance			
	Chemical name		Nitrilotriacetic acid			
	CAS number		139-13-9			
	EC (EINECS) number		205-355-7			
	Registration number		01-2119471481-40	-xxxx		
	Other substance nam	e				
	Nitrilotriacetic a	cid				
1.2.	Relevant identified	uses of the substance or m	ixture and uses advised	against		
	Substance's intended use					
	Chemical production, analytical chemistry, laboratory synthesis, industrial applications.					
	Substance uses advised against					
	•	ot be used in ways other then	those referred in Section 1			
	Details of the supplier of the safety data sheet					
1.3.	Details of the suppl	ier of the safety data sheet				
1.3.	Supplier	-				
1.3.		-	Ing. Petr Švec - PE	NTA s.r.o.		
1.3.	Supplier	-				
1.3.	Supplier Name or trade	-	Ing. Petr Švec - PE			
1.3.	Supplier Name or trade	name	Ing. Petr Švec - PE Radiová 1122/1, Pr			
1.3.	Supplier Name or trade i Address	name	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic			
1.3.	Supplier Name or trade i Address Identification nu	name	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013			
1.3.	Supplier Name or trade of Address Identification no VAT Reg No	name	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013 CZ02096013	aha 10, 102 00		
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	name umber (CRN)	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemica www.pentachemica	aha 10, 102 00 Is.eu		
1.3.	Supplier Name or trade of Address Identification no VAT Reg No Phone E-mail Web address	name	Ing. Petr Švec - PE Radiová 1122/1, Pr Czech Republic 02096013 CZ02096013 +420 226 060 681 info@pentachemica www.pentachemica ata sheet	aha 10, 102 00 Is.eu Is.eu		
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2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008
The substance is classified as dangerous.

Eye Irrit. 2, H319 Carc. 2, H351 **Most serious adverse effects on human health and the environment** Suspected of causing cancer. Causes serious eye irritation.

2.2. Label elements

Hazard pictogram



Signal word Warning Dangerous substance Nitrilotriacetic acid (EC: 205-355-7; CAS: 139-13-9)



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Hazard statement	S					
H319	Causes serious e	ye irritation.				
H351	Suspected of cau	ising cancer.				
Precautionary sta	tements					
P280	Wear protective	gloves.				
P305+P351+P338	IF IN EYES: Rins	e cautiously with water for	several minutes. Remove co	ontact		

2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

lenses, if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 139-13-9 EC: 205-355-7 Registration number: 01-2119471481-40- xxxx	substance main component Nitrilotriacetic acid		Eye Irrit. 2, H319 Carc. 2, H351	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled Not expected. If on skin Not expected. If in eyes Causes serious eye irritation. If swallowed Irritation, nausea.



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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media**

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

6.4. Reference to other sections See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s) not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

none

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.



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	Respiratory protection	
	It is not needed.	
	Thermal hazard	
	Not available.	
	Environmental exposure controls	
	Observe usual measures for protection of the envi	ironment, see Section 6.2.
SECTI	ON 9: Physical and chemical properties	
9.1.	Information on basic physical and chemical p	properties
	Physical state	solid
	Colour	white
	Odour	without fragrance
	Melting point/freezing point	245 °C
	Boiling point or initial boiling point and boiling ran	
	Flammability	data not available
	Lower and upper explosion limit	data not available
	Flash point	data not available
	Auto-ignition temperature	data not available
	Decomposition temperature	data not available
	pH Kinematie viegosity	1.7-2.7 (10g/l% solution at 23 °C) data not available
	Kinematic viscosity Solubility in water	data not available
	Partition coefficient n-octanol/water (log value)	data not available
	Vapour pressure	data not available
	Density and/or relative density	data not available
	Relative vapour density	data not available
	Particle characteristics	data not available
9.2.	Other information	
	not available	
0507-		
	ON 10: Stability and reactivity	
10.1.	Reactivity The substance is non-flammable.	
10.2.		
10.2.	The product is stable under normal conditions.	
10.3.	Possibility of hazardous reactions	
	Unknown.	
10.4.		
		under normal use. Protect against flames, sparks, overheating and
	against frost.	с , , , , , , , , , , , , , , , , , , ,
10.5.	Incompatible materials	
	Protect against strong acids, bases and oxidizing a	agents.
10.6.	· ·	
	Not developed under normal uses. Dangerous ou high temperature and in fire.	tcomes such as carbon monoxide and carbon dioxide are formed at

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 No toxicological data is available for the substance.



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Acute toxicity

Based on available data the classification criteria are not met.

Nitrilotriacetic acid

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	>6400 mg/kg		Rat (Rattus norvegicus)	F/M
Dermal	LD50	>10000 mg/kg		Rabbit	F/M

Skin corrosion/irritation

No data available for the substance. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data the classification criteria are not met. Acute toxicity

Nitrilotriacetic acid						
Parameter	Value	Exposure time	Species	Environment		
EC₅o	560 mg/l	48 hours	Daphnia (Daphnia magna)			

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Nitrilotriacetic acid						
Parameter	Value	Exposure time	Species	Environment		
LC50	114 mg/l	96 hours	Fish (Pimephales promelas)			

12.2. Persistence and degradability

No data available for the substance.

12.3. Bioaccumulative potential No data available for the substance.

No data available for the substar

12.4. Mobility in soil

No data available for the substance.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100. 12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user not available
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant



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SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

A list of standard risk phras	es used in the safety data sheet
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
	j used in the safety data sheet
P280	Wear protective gloves.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other important information	n about human health protection
The product must not be - unle	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
РВТ	Persistent, Bioaccumulative and Toxic



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ppm	Parts per million				
REACH	Registration, Evalua	tion, Authorisation and	Restriction of Chemicals		
RID	Agreement on the tr	ansport of dangerous g	oods by rail		
UN	Four-figure identifica Model Regulations	ation number of the sub	stance or article taken from the	UN	
UVCB	Substances of unkno biological materials	own or variable composi	tion, complex reaction products	or	
VOC	Volatile organic com	pounds			
vPvB	Very Persistent and	very Bioaccumulative			
Carc.	Carcinogenicity				
Eye Irrit.	Eye irritation				

Training guidelines

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 10 March 2022. Changes were made in sections 2 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.