

Levothyroxine Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.13	28.09.2024	1130735-00020	Date of first issue: 30.11.2016

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

1.1 Product identifier

Trade name : Levothyroxine Formulation

Other means of identification : Leventa (A010426)

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

Use of the Sub- stance/Mixture	: Veterinary product
Recommended restrictions on use	: Not applicable

1.3 Details of the supplier of the safety data sheet

Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 1

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

ngei

H226: Flammable liquid and vapour. H361: Suspected of damaging fertility or the unborn child. H372: Causes damage to organs through prolonged or repeated exposure.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard statements		H361 H372	 H226 Flammable liquid and vapour. H361 Suspected of damaging fertility or the unborn child H372 Causes damage to organs through prolonged or repeated exposure. 	
Precautionary statements		P201 P210 flame P233 P264 P280	Keep awa s and other i Keep cont Wash skir	ecial instructions before use. y from heat, hot surfaces, sparks, open gnition sources. No smoking. ainer tightly closed. h thoroughly after handling. ective gloves/ protective clothing/ eye protec- on.
		-		exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label: levothyroxine sodium

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Ethanol#	64-17-5 200-578-6 603-002-00-5	Flam. Liq. 2; H225 Eye Irrit. 2; H319 specific concentra- tion limit	>= 10 - < 20



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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			Eye Irrit. 2; H319 >= 50 %	
levoth	nyroxine sodium	55-03-8 200-221-4	Acute Tox. 2; H300 Repr. 2; H361 STOT RE 1; H372 (Thyroid, Cardio- vascular system, Central nervous system) 	< 1

For explanation of abbreviations see section 16. #: Voluntarily-disclosed substance

SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.		
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).		
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.		
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		



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4.2 Most important symptoms and Risks :			effects, both acute and delayed Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.		
4.3 Indica Treati	-	mec		d special treatment needed	
Teau	ment	•	rreat symptomat	ically and supportively.	
SECTION	15: Firefighting meas	sur	es		
5.1 Exting	uishing media				
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
Unsui media	itable extinguishing a	:	High volume water jet		
5.2 Specia	al hazards arising from	the	substance or mi	xture	
Specific hazards during fire- fighting		:	fire. Flash back possi Vapours may forr	d water stream as it may scatter and spread ole over considerable distance. n explosive mixtures with air. bustion products may be a hazard to health.	
Hazaı ucts	rdous combustion prod-	:	Carbon oxides		
5.3 Advice	e for firefighters				
Speci	•	:		e, wear self-contained breathing apparatus. tective equipment.	
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Remove all sources of ignition.
	Use personal protective equipment.
	Follow safe handling advice (see section 7) and personal pro-
	tective equipment recommendations (see section 8).

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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6.2 Environmental precautions Environmental precautions		 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 		
6.3 Method	Is and material for co	ntainment and clean	ing up	
Methods for cleaning up :		Soak up with ine Suppress (knock spray jet. For large spills, p ment to keep ma be pumped, store Clean up remain bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ols should be used. rt absorbent material. down) gases/vapours/mists with a water provide dyking or other appropriate contain- terial from spreading. If dyked material can e recovered material in appropriate container. ing materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding ational requirements.	

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures Local/Total ventilation	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment. 	
Advice on safe handling	 Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure as sessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. 	-



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Hygiene measures		 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 			
7.2 Conditi	ions for safe storage,	including any inc	ompatibilities		
Requirements for storage areas and containers		tightly closed. accordance w	erly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in vith the particular national regulations. Keep at and sources of ignition.		
Advice on common storage		Strong oxidizi Self-reactive s Organic perox Flammable so Pyrophoric liq Pyrophoric so Self-heating s Substances a flammable ga Explosives Gases	substances and mixtures kides blids uids lids substances and mixtures nd mixtures, which in contact with water, emit		

7.3 Specific end use(s)

Specific use(s)	: No data available
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	TWA	500 ppm 950 mg/m3	FOR-2011- 12-06-1358
levothyroxine sodi- um	55-03-8	TWA	0.1 μg/m3 (OEB 5)	Internal
		Wipe limit	1 μg/100 cm ²	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Substance name	End Use Exposure routes		Potential health ef-	Value
			fects	
Ethanol	Workers	Inhalation	Long-term systemic effects	380 mg/m3
	Workers	Skin contact	Long-term systemic effects	267 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Ethanol	Fresh water	0,96 mg/l
	Freshwater - intermittent	2,75 mg/l
	Marine water	0,79 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3,6 mg/kg dry
		weight (d.w.)
	Marine sediment	2,9 mg/kg dry
		weight (d.w.)
	Soil	0,63 mg/kg dry
		weight (d.w.)
	Oral (Secondary Poisoning)	380 mg/kg food

8.2 Exposure controls

Engineering measures

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
Hand protection			
Material	:	Chemical-resistant gloves	
Remarks	:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.	
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.	



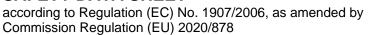
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Resp	iratory protection	contaminate : If adequate I sure assessi ommended g	iate degowning techniques to remove potentially d clothing. ocal exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection. hould conform to NS EN 14387
Fil	lter type		articulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Aqueous solution
Colour	:	colourless
Odour	:	slight
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	44 °C
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	9,7 - 10,7
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-	:	Not applicable





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octano	ol/water					
Vapou	r pressure	:	No data available	9		
Relativ	ve density	:	No data available	9		
Densit	у	:	: 1,05 g/cm ³			
Relativ	ve vapour density		No data available	9		
	e characteristics ticle size	:	Not applicable			
9.2 Other in	nformation					
Explos	sives	:	Not explosive			
Oxidizi	ing properties	:	The substance o	r mixture is not classified as oxidizing.		
Evapo	ration rate	:	No data available	9		

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
10.4 Conditions to avoid		
Conditions to avoid	:	Heat, flames and sparks.
10.5 Incompatible materials		
Materials to avoid	:	Oxidizing agents Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion



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				Eye contact			
	Acute	toxicity					
I	Not cla	ssified based on availa	ble	information.			
l	Produc	<u>ct:</u>					
	Acute o	oral toxicity	:	: Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method			
<u>(</u>	Compo	onents:					
	Ethand	bl:					
	Acute o	oral toxicity	:	LD50 (Rat): 10.47 Method: OECD T	70 mg/kg est Guideline 401		
,	Acute i	nhalation toxicity	:	: LC50 (Rat, male): 116,9 mg/l Exposure time: 4 h Test atmosphere: vapour			
	Acute o	dermal toxicity	:	LD50 (Rabbit): >	15.800 mg/kg		
	levoth	yroxine sodium:					
	-	oral toxicity	:	TDLo (Humans):	10 mg/kg		
				TDLo (Dog): 10 n	ng/kg		
				LD50 (Rat): > 1.0	00 mg/kg		
,	Acute o	dermal toxicity	:	LD50 (Rat): > 50	mg/kg		
		oxicity (other routes of stration)	:	LD50 (Rat): 20 m Application Route			
				LD50 (Rat): 50 m Application Route			

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Ethanol:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Specie Metho Result	d	: Rabbit : OECD Test Gui : Irritation to eyes	deline 405 , reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ethanol:

EST)

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethanol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

Ethanol:

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Effect	Effects on fertility		Test Type: Two-g Species: Mouse Application Route Result: negative	generation reproduction toxicity study e: Ingestion
levotł	nyroxine sodium:			
	Effects on foetal develop-		Test Type: Devel Species: Mouse Application Route	e: Oral oxicity: LOAEL: 0,25 mg/kg body weight lopment e: Oral oxicity: NOAEL: 3 mg/kg body weight lopment genic effects lopment pig
Repro	oductive toxicity - As- nent	:		maging the unborn child.
	- single exposure assified based on avail	able	information.	
STOT	STOT - repeated exposure			
Cause	Causes damage to organs thr		h prolonged or rep	peated exposure.
Comp	oonents:			
Targe	nyroxine sodium: t Organs ssment	:		vascular system, Central nervous system to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
Ethar	iol:			
	EL	:	Rat 1.730 mg/kg 3.200 mg/kg Ingestion 90 Days	

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Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

levothyroxine sodium:

Ingestion

: Target Organs: Thyroid Target Organs: Cardio-vascular system Target Organs: Central nervous system Symptoms: Palpitation, hypotension, Tremors, Headache, increase in appetite, Sweating, Vomiting, Diarrhoea, Fever, nervousness, weight loss

SECTION 12: Ecological information

12.1 Toxicity

Components:		
Ethanol: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 14.200 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h
		EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Protozoa): 5.800 mg/l Exposure time: 4 h
Toxicity to fish (Chronic tox- icity)	:	NOEC: >= 79 mg/l Exposure time: 100 d Species: Oryzias latipes (Japanese medaka)
Toxicity to daphnia and other	:	NOEC: 9,6 mg/l



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aquat ic tox	tic invertebrates (Chron- icity)		osure time: 9 cies: Daphnia	d a magna (Water flea)
12.2 Pers	istence and degradabil	ity		
Com	ponents:			
Etha i Biode	nol: egradability	Biod	ult: Readily b egradation: osure time: 2	
12.3 Bioa	ccumulative potential			
Com	ponents:			
	nol: ion coefficient: n- iol/water	: log F	Pow: -0,35	
	i lity in soil ata available			
12.5 Resu	Ilts of PBT and vPvB as	ssessmei	nt	
Prod Asse	<u>uct:</u> ssment	to be very	either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prope	rties		
<u>Prod</u> Asse	<u>uct:</u> ssment	ered REA (EU)	to have end CH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
	r adverse effects ata available			
SECTION	N 13: Disposal consid	lerations	6	
13.1 Wast Produ	t e treatment methods uct			ordance with local regulations.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in



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Conta	aminated packaging	Do not dispose Empty contained dling site for rea Empty contained Do not pressuring pose such cont of ignition. The	the waste disposal authorities. of waste into sewer. ers should be taken to an approved waste han- cycling or disposal. ers retain residue and can be dangerous. ize, cut, weld, braze, solder, drill, grind, or ex- cainers to heat, flame, sparks, or other sources y may explode and cause injury and/or death. e specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1170
ADR	:	UN 1170
RID	:	UN 1170
IMDG	:	UN 1170
ΙΑΤΑ	:	UN 1170

14.2 UN proper shipping name

ADN	:	ETHANOL SOLUTION
ADR	:	ETHANOL SOLUTION
RID	:	ETHANOL SOLUTION
IMDG	:	ETHANOL SOLUTION
ΙΑΤΑ	:	Ethanol solution

14.3 Transport hazard class(es)

			Class	Subsidiary risks
	ADN	:	3	
	ADR	:	3	
	RID	:	3	
	IMDG	:	3	
	ΙΑΤΑ	:	3	
14.4	Packing group			
	ADN Packing group Classification Code Hazard Identification Number Labels	:	III F1 30 3	
	ADR Packing group Classification Code Hazard Identification Number	:	III F1 30	

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Labels Tunnel restriction code		:	3 (D/E)	
Class	ting group sification Code ard Identification Number els	:	III F1 30 3	
IMDG Packing group Labels EmS Code		:	III 3 F-E, S-D	
Pack aircra Pack	ing instruction (LQ)	:	366 Y344	
Labe		:	III Flammable Liquid	ls
Pack ger a	IATA (Passenger) Packing instruction (passen- ger aircraft)		355 Y344	
Packing instruction (LQ) Packing group Labels		:	F344 III Flammable Liquid	ls
14.5 Envi	ironmental hazards			
ADN Envir	ronmentally hazardous	:	no	
ADR Envii	ronmentally hazardous	:	no	
RID Envii	ronmentally hazardous	:	no	
IMD Marii	G ne pollutant	:	no	
	cial precautions for use			r informational purpasses only and calaby

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, Conditions of restriction for the following entries should be considered:

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mixt	ures and articles (Annex		Number on list 3				
				Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.			
	CH - Candidate List of S cern for Authorisation (A		n :	Not applicable			
REA	CH - List of substances ex XIV)		ı :	Not applicable			
	ulation (EC) on substand	ces that deplete the ozo	ine :	Not applicable			
Reg	ulation (EU) 2019/1021 ((recast)	on persistent organic po	ollu- :	Not applicable			
Regi men of da	ulation (EU) No 649/201 t and the Council conce angerous chemicals	rning the export and imp	oort	Not applicable			
Seve	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of						

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	ormation :	Items where changes have been made to the previous version
		are highlighted in the body of this document by two vertical lines.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Levothyroxine Formulation

Version 3.13	Revision Date: 28.09.2024		0S Number: 30735-00020	Date of last issue: 06.04.2024 Date of first issue: 30.11.2016		
Full text of H-Statements H225 H300 H319 H361 H372			 Highly flammable liquid and vapour. Fatal if swallowed. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. 			
Full text of other abbreviations						
	it. Liq.			city gan toxicity - repeated exposure ional Exposure limits		

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD



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comp Sheet	ile the Safety Data		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		
Class	ification of the mixtu	ure:	Classification procedure:		
Flam.	Liq. 3	H226	Based on product data or assessment		
Repr.	2	H361	Calculation method		
STOT	RE 1	H372	Calculation method		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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