

Version	Revision Date:	SDS Number:	Date of last issue: 12.07.2023
3.1	30.09.2023	10562716-00011	Date of first issue: 14.01.2022

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

1.1	Product identifier Trade name	:	Metamizol Injection Formulation
1.2	Relevant identified uses of th	ne s	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	saf	ety 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)

Reproductive toxicity, Category 2

Specific target organ toxicity - repeated exposure, Category 1 Long-term (chronic) aquatic hazard, Category 2 H361: Suspected of damaging fertility or the unborn child.H372: Causes damage to organs through prolonged or repeated exposure.H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word



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Hazar	d statements	H372 Causes peated exposure	red of damaging fertility or the unborn child. damage to organs through prolonged or re- e. aquatic life with long lasting effects.
Preca	utionary statements	P264 Wash sl P273 Avoid re	special instructions before use. kin thoroughly after handling. elease to the environment. otective gloves/ protective clothing/ eye protec- tion.
		Response: P308 + P313 attention. P391 Collect s	IF exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label: Metamizol

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.

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Metamizol	68-89-3 200-694-7	Repr. 2; H361 STOT RE 1; H372 (Blood) Aquatic Chronic 2; H411	>= 30 - < 50

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

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Benzy	/l alcohol	100-51-6 202-859-9 603-057-00	-5 Acute Tox. 4; H302 >= 1 - < 10 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 1.620 mg/kg

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measur	es			
General advice	 In the case of accident or if you feel unwell, seek medical advice 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	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.			
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.			
4.2 Most important symptoms and effects, both acute and delayed				
Risks	 Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. 			
	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.			

Commission Regulation (EU) 2020/878



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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-

Specific extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir-
ods		cumstances and the surrounding environment.
		Use water spray to cool unopened containers.
		Remove undamaged containers from fire area if it is safe to do
		S0.
		Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
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 oil barriers).

Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages

cannot be contained.



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up :	 Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national 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	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
			Provide adequate precautions, such as electrical grounding
			and bonding, or inert atmospheres.
	Local/Total ventilation	:	Use only with adequate ventilation.
	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 safety
			practice, based on the results of the workplace exposure as-
			sessment
			Minimize dust generation and accumulation.
			Keep container closed when not in use.
			Keep away from heat and sources of ignition.
			Take precautionary measures against static discharges.
			Do not eat, drink or smoke when using this product.
			Take care to prevent spills, waste and minimize release to the environment.
	Hygiene measures	:	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 contami- nated clothing before re-use.
			The effective operation of a facility should include review of
			engineering controls, proper personal protective equipment,



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		industrial hygi	egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
7.2 Cond	itions for safe storage,	including any inc	ompatibilities
	irements for storage s and containers		erly labelled containers. Store locked up. Store in ith the particular national regulations.
Advice on common storage		Strong oxidizi	substances and mixtures
7.3 Speci	fic end use(s)		
-			

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Metamizol	68-89-3	TWA	3 mg/m3 (OEB 1)	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Soil	0,456 mg/kg

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

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
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387
Filter type	:	Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available

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	Flammability (solid, gas)		:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.
	Flamm	ability (liquids)	:	Not applicable	
	Upper explosion limit / Upper flammability limit		:	No data available	9
		explosion limit / Lower bility limit	:	No data available	e
	Flash p	point	:	No data available	e
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Solubil Wat	ity(ies) er solubility	:	No data available	e
	Partitio octano	n coefficient: n- l/water	:	Not applicable	
	Vapour	pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Relativ	e vapour density	:	No data available	e
		e characteristics ticle size	:	Not applicable	
9.2		nformation			
	Explosi		÷	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
		ation rate	:	No data available	
	Molecu	ılar weight	:	No data available	9

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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	: May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.

Conditions to avoid	. neat, names and sparks
	Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

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
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Components:		
Metamizol:		

Acute oral toxicity	:	LD50 Oral (Rat): 3.000 mg/kg
		Target Organs: Central nervous system

LD50 Oral (Rabbit): 2.150 mg/kg



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			Target Organs: C	entral nervous system
				ea pig): 1.000 mg/kg entral nervous system
Benz	yl alcohol:			
Acute	oral toxicity	:	LD50 (Rat): 1.620) mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4,1 Exposure time: 4 Test atmosphere Method: OECD T	h

Skin corrosion/irritation

Not classified based on available information.

Components:

Benzyl alcohol:

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

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irritation to eyes, 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:

Benzyl alcohol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

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		cell mutagenicity ssified based on avail	able	information.	
	<u>Compo</u>	onents:			
	Metam	izol:			
	Genoto	oxicity in vitro	:	Test Type: Ames Result: negative	test
					enicity (in vitro mammalian cytogenetic test) nese hamster lung cells
	Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Result: negative	nucleus test
	Benzv	l alcohol:			
	-	oxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
	Genoto	oxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
		ogenicity ssified based on avail	ahle	information	
		onents:			
	Metam				
	Specie		:	Mouse, male	
		ation Route	:	oral (feed)	
	Exposi	ure time	:	2 Years	
	Result		:	375 mg/kg bw/da negative	y
	Specie	S	:	Mouse, female	
		ation Route	:	oral (feed)	
	Exposi	ure time	:	2 Years	
	Result		:	442 mg/kg bw/da negative	У
	Specie	s		Rat, male	
		ation Route	:	oral (drinking wat	er)
		ure time	:	2 Years	
	Result		:	150 mg/kg bw/da negative	У
			•	-	
	Specie	S	:	Rat, female	

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



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	Applica Exposu Result	tion Route rre time	:	oral (drinking wate 2 Years 193 mg/kg bw/day negative	
	Species	tion Route re time		Mouse Ingestion 103 weeks OECD Test Guide negative	line 451
	-	luctive toxicity ted of damaging fertilit	y or	the unborn child.	
	Compo				
	Metam Effects	izol: on fertility	:	Species: Rat Application Route: Early Embryonic E weight Result: Fetotoxicit adverse reproduct Test Type: Fertility Species: Rat Application Route: Early Embryonic E weight Result: Fetotoxicit Test Type: Fertility Species: Rabbit Application Route: Early Embryonic E weight	Development: NOAEL: 100 mg/kg body y, Maternal toxicity observed., May cause ive effects. //early embryonic development : Oral Development: NOAEL: 400 mg/kg body y, Increased resorptions. //early embryonic development
	Effects ment	on foetal develop-	:	Result: Maternal to	Oral oxicity: NOAEL: 250 mg/kg body weight oxicity observed., Reduced maternal body ced maternal food consumption, Reduced
	Reprod sessme	uctive toxicity - As- ent	:	Suspected of dam unborn child.	aging fertility. Suspected of damaging the
	Der	alaahali			

Benzyl alcohol:



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Effects	on fertility	:	Species: Rat Application Route Result: negative	ry/early embryonic development e: Ingestion on data from similar materials
Effects ment	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-foetal development e: Ingestion

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Metamizol:

Exposure routes	: Oral
Target Organs	: Blood
Assessment	: Causes damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Metamizol:

Species NOAEL Application Route Exposure time Target Organs Symptoms		Rat 50 mg/kg Subcutaneous 28 d Blood blood effects
Species NOAEL Application Route Exposure time Target Organs Symptoms		Rat 150 mg/kg Intravenous 28 d Blood blood effects
Species NOAEL Application Route Exposure time Target Organs Symptoms		Rat 300 mg/kg Oral 26 Weeks Blood blood effects
Species NOAEL	:	Dog 150 mg/kg

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Expo	cation Route sure time et Organs otoms		Subcutaneous 28 d Blood blood effects	
Expo	EL cation Route sure time et Organs		Dog 50 mg/kg Intravenous 28 d Blood, Gastrointe blood effects, Sa	estinal tract livation, Vomiting
Expo	EL cation Route sure time et Organs		Dog 100 mg/kg Oral 26 Weeks Blood, Liver, Kide blood effects	ney, spleen
Speci NOAE Applio	EL cation Route sure time	:	Rat 1,072 mg/l inhalation (dust/r 28 Days OECD Test Guid	
Aspir	ation 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:

Metamizol:

Ingestion

: Target Organs: Blood Symptoms: blood effects, Bloody urine, Diarrhoea, Nausea, Rash, hypotension



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SECTION 12: Ecological information

12.1 Toxicity

Components:		
Metamizol: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 47 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): > 50,8 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	EC10: 0,725 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Benzyl alcohol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211



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12.2 Pers	istence and degradabi	lity		
Com	ponents:			
	mizol: egradability	:	Result: Not readi Biodegradation:	ily biodegradable. 18 - 23 %
	zyl alcohol: egradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
12.3 Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	ryl alcohol: tion coefficient: n- nol/water	:	log Pow: 1,05	
	ility in soil ata available			
12.5 Resu	ults of PBT and vPvB a	sse	ssment	
<u>Prod</u> Asse	l <mark>uct:</mark> ssment	:	to be either persi	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 Endo	ocrine disrupting prope	ertie	es	
Prod	uct:			
Asse	ssment	:	ered to have end REACH Article 5	hixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
	e r adverse effects ata available			
SECTIO	N 13: Disposal consi	der	ations	
13.1 Was	te treatment methods			
			D : ()	

Product

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

:



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Contaminated packaging		:	Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
SECT	SECTION 14: Transport information				
14.1 U	JN nu	mber or ID number			
Α	DN		:	UN 3082	
Α	ADR		:	UN 3082	
R	RID		:	UN 3082	
IN	MDG		:	UN 3082	
I.A	ΑΤΑ		:	UN 3082	
14.2 U	JN pro	oper shipping name			
A	DN		:	ENVIRONMENTA N.O.S. (Metamizol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
A	ADR		:	ENVIRONMENTA N.O.S. (Metamizol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
R	RID		:	ENVIRONMENT N.O.S. (Metamizol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
IN	MDG		:	ENVIRONMENT N.O.S. (Metamizol)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
I/	ΑΤΑ		:	Environmentally h (Metamizol)	nazardous substance, liquid, n.o.s.
14.3 T	Frans	oort hazard class(es)			
				Class	Subsidiary risks
Α	DN		:	9	
Α	ADR		:	9	
R	RID		:	9	
IN	MDG		:	9	
I.A	ΑΤΑ		:	9	
14.4 P	Packir	ng group			
Р		g group ication Code	:	III M6	

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



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VersionRevision Date:3.130.09.2023	SDS Number: 10562716-00011	Date of last issue: 12.07.2023 Date of first issue: 14.01.2022
Hazard Identification Numb	er : 90 : 9	
ADR Packing group Classification Code Hazard Identification Numb Labels Tunnel restriction code	: III : M6 er : 90 : 9 : (-)	
RID Packing group Classification Code Hazard Identification Numb Labels	: III : M6 er : 90 : 9	
IMDG Packing group Labels EmS Code	: III : 9 : F-A, S-F	
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	: 964 : Y964 : III : Miscellaneous	
IATA (Passenger) Packing instruction (passen ger aircraft) Packing instruction (LQ) Packing group Labels	I- : 964 : Y964 : III : Miscellaneous	
14.5 Environmental hazards		
ADN Environmentally hazardous	: yes	
ADR Environmentally hazardous	: yes	
RID Environmentally hazardous	: yes	
IMDG Marine pollutant	: yes	
IATA (Passenger) Environmentally hazardous	: yes	
IATA (Cargo) Environmentally hazardous	: yes	
14.6 Special precautions for u	ser	

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



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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, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: 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.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliar	men	t and of the Council on the control of

major-accident hazards involving dangerous substances.

,	0 0	Quantity 1	Quantity 2
E2	ENVIRONMENTAL	200 t	500 t
	HAZARDS		

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



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IECS	C	: not determined		
	nical safety assessm al Safety Assessment	nt as not been carried out.		
SECTIO	N 16: Other informa	on		
Othe	r information	: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full t	text of H-Statements			
H302 H319 H332 H361 H372	2	: Harmful if inhaled. : Suspected of damaging fe	 Causes serious eye irritation. Harmful if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated 	
H411		: Toxic to aquatic life with lo	ong lasting effects.	
Full t	text of other abbrevia	ons		
		: Eye irritation : Reproductive toxicity	Long-term (chronic) aquatic hazard Eye irritation	
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 Test- ing of Materials; by _ Rody weight; CLR _ Classification Labelling Packaging Regulation; Rogula				

ing 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



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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, OECI	
compile the Safety Data	eChem Portal search results and European Chemicals Age	
Sheet	cy, http://echa.europa.eu/	
Classification of the mixture:	Classification procedure:	

	•
H361	Calculation method
H372	Calculation method
H411	Calculation method
	H372

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.

NO / EN