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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 Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms				K
Signa	l word	: Dang	ger	•
Hazard statements		: H36 ² H372 peate H41 ²	2 Causes d ed exposure.	d of damaging fertility or the unborn child. amage to organs through prolonged or re- quatic life with long lasting effects.
Preca	autionary statements	: Prev	ention:	
		P280	Wash skir Avoid rele	ecial instructions before use. a thoroughly after handling. ase to the environment. ective gloves/ protective clothing/ eye protec- on.
			tion.	exposed or concerned: Get medical advice/ illage.

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.

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
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 1 - < 10

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measu	ures	8
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	:	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 ar	nd e	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.
4.3 Indication of any immediate r	mer	dical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.
SECTION 5: Firefighting meas	sur	P6
SECTION 5. I hengining meas	Sur	

5.1 Extinguishing media

Suitable extinguishing media : Water spray

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				Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsuitable extinguishing media		ble extinguishing	:	None known.	
5.2 Sp	pecial	hazards arising from	the	substance or mi	xture
		:	Exposure to com	pustion products may be a hazard to health.	
Hazardous combustion prod- ucts		:	Carbon oxides		
5.3 Ac	dvice f	or firefighters			
	Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- ods		:	cumstances and to Use water spray to	measures that are appropriate to local cir- he surrounding environment. o 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

Foll	e personal protective equipment. ow safe handling advice (see section 7) and personal pro- ive 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. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).
---------------------------	---	---

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 surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. For large spills, provide dyking or other appropriate contain-
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		be pumped, stor Clean up remain bent. Local or nationa posal of this mai employed in the mine which regu Sections 13 and	aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- I regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational 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

	5
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.
3	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 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 Conditions for safe storag	e, including any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:

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		Strong oxidizing Self-reactive su Organic peroxic Explosives Gases	bstances and mixtures
•	ic end use(s) fic use(s)	: No data availab	٩

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):

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

Predicted No Effect Concentration (PNEC):

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



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		Marine sedime Soil	ent 0.527 mg/kg 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 BS 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

Appearance Colour Odour Odour Threshold	:	liquid colourless No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	9
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Partitio octanol Auto-ig	er solubility n coefficient: n-	: :	No data available Not applicable No data available No data available	
		cosity, kinematic	:	No data available	9
		ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation		Net any Parkin	
		ability (liquids)	:	Not applicable	
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	Not applicable	

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. Avoid dust formation.

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Material	oatible materials is to avoid ous decomposition p	:		
.6 Hazard		:		
	ous decomposition		Oxidizing agents	
No haza		oro	ducts	
	ardous decomposition	pro	ducts are known.	
CTION 1	1: Toxicological in	for	mation	
.1 Informa	ation on toxicologica	l ef	fects	
	tion on likely routes of	:	Inhalation	
exposur	е		Skin contact Ingestion	
			Eye contact	
Acute to	oxicity			
Not clas	sified based on availa	ble	information.	
Produc				
Acute of	ral toxicity	:	Acute toxicity estir Method: Calculatic	nate: > 2,000 mg/kg on method
Acute in	halation toxicity	:	Acute toxicity estin	
			Exposure time: 4 h Test atmosphere:	
			Method: Calculatio	
<u>Compo</u>	nents:			
Metami	zol:			
Acute of	ral toxicity	:	LD50 Oral (Rat): 3 Target Organs: Ce	3,000 mg/kg entral nervous system
			LD50 Oral (Rabbit Target Organs: Ce): 2,150 mg/kg entral nervous system
				a pig): 1,000 mg/kg entral nervous system
Benzvl	alcohol:			
-	ral toxicity	:	LD50 (Rat): 1,620	ma/ka
Acute In	halation toxicity	•	LC50 (Rat): > 4.17 Exposure time: 4 h	
			Test atmosphere:	dust/mist
			Method: OECD Te	est Guideline 403
Skin co	rrosion/irritation			
	sified based on availa	ble	information.	

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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

Germ cell mutagenicity

Not classified based on available information.

Components:

Metamizol: : Test Type: Ames test Result: negative Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test) Test system: Chinese hamster lung cells Result: negative Genotoxicity in vivo : Test Type: Micronucleus test Species: Mouse Result: negative

Benzyl alcohol:



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Genotoxicity in vitro		: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Genotoxicity in vivo		cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
Carci	nogenicity		
Not cl	assified based on av	ailable information.	
Comp	oonents:		
Metar	nizol:		
Speci	es	: Mouse, male	
	ation Route	: oral (feed)	
Expos	sure time	: 2 Years	
. .		: 375 mg/kg bw/d	day
Resul	t	: negative	
Speci	es	: Mouse, female	
	ation Route	: oral (feed)	
Expos	sure time	: 2 Years	
		: 442 mg/kg bw/d	day
Resul	t	: negative	
Speci	es	: Rat, male	
	ation Route	: oral (drinking w	ater)
Expos	sure time	: 2 Years	
. .		: 150 mg/kg bw/o	lay
Resul	t	: negative	
Speci	es	: Rat, female	
Applic	ation Route	: oral (drinking w	ater)
Expos	sure time	: 2 Years	
		: 193 mg/kg bw/d	day
Resul	t	: negative	
Benzy	/l alcohol:		
Speci	·	: Mouse	
	ation Route	: Ingestion	
	sure time	: 103 weeks	
Metho		: OECD Test Gu	ideline 451
Resul		: negative	

Suspected of damaging fertility or the unborn child.

Components:

Metamizol:

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E	Effects on fertility		Effects on fertility			Species: Rat Application Route Early Embryonic I weight	Development: NOAEL: 100 mg/kg body ty, Maternal toxicity observed., May cause
				Species: Rat Application Route Early Embryonic I weight	y/early embryonic development : Oral Development: NOAEL: 400 mg/kg body ty, Increased resorptions.		
				Species: Rabbit Application Route Early Embryonic I weight	y/early embryonic development : Oral Development: NOAEL: 25 mg/kg body ty, Increased resorptions.		
	Effects on foetal develop- ment		:	Result: Maternal t	: Oral oxicity: NOAEL: 250 mg/kg body weight oxicity observed., Reduced maternal body uced maternal food consumption, Reduced		
	Reprod sessme	uctive toxicity - As- ent	:	Suspected of dam unborn child.	naging fertility. Suspected of damaging the		
	-	alcohol: on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials		
	Effects ment	on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	ro-foetal development : Ingestion		

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

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<u>C</u>	omponents:		
E> Ta	etamizol: xposure routes arget Organs ssessment	: Oral : Blood : Causes damage to exposure.	o organs through prolonged or repeated
Re	epeated dose toxicity		
<u>C</u>	omponents:		
M	etamizol:		
N Ap Ex Ta	Decies OAEL oplication Route kposure time arget Organs ymptoms	: Rat : 50 mg/kg : Subcutaneous : 28 d : Blood : blood effects	
N Ap Ex Ta	Decies OAEL oplication Route kposure time arget Organs ymptoms	: Rat : 150 mg/kg : Intravenous : 28 d : Blood : blood effects	
N Ar Ex Ta	Decies OAEL oplication Route xposure time arget Organs ymptoms	: Rat : 300 mg/kg : Oral : 26 Weeks : Blood : blood effects	
N(Ar Ex Ta	Decies OAEL oplication Route kposure time arget Organs ymptoms	: Dog : 150 mg/kg : Subcutaneous : 28 d : Blood : blood effects	
N Ar Ex Ta	Decies OAEL oplication Route kposure time arget Organs ymptoms	: Dog : 50 mg/kg : Intravenous : 28 d : Blood, Gastrointes : blood effects, Sali	
N Ar Ex	becies OAEL oplication Route xposure time arget Organs	: Dog : 100 mg/kg : Oral : 26 Weeks : Blood, Liver, Kidn	ey, spleen



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Symp	otoms	:	blood effects		
Spec NOA Appli Expo	Benzyl alcohol: Species NOAEL Application Route Exposure time Method		Rat 1.072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412		
-	ration toxicity lassified based on availa	ble	information.		
Expe	rience with human exp	osı	ire		
<u>Com</u>	ponents:				
	Metamizol: Ingestion		: Target Organs: Blood Symptoms: blood effects, Bloody urine, Diarrhoea, Nausea, Rash, hypotension		
12.1 Toxic Com	city ponents <u>:</u>				
Meta	mizol: ity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD Te		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxic plants	ity to algae/aquatic s	:	EC50 (Raphidoce 50.8 mg/l Exposure time: 72 Method: OECD Te		
	ity to daphnia and other tic invertebrates (Chron- icity)	:	EC10: 0.725 mg/l Exposure time: 21 Species: Daphnia Method: OECD To	magna (Water flea)	

Benzyl alcohol: Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 230 mg/l



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	aquatic invertebrates			Exposure time: 4 Method: OECD T	8 h Test Guideline 202
	Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
				mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 310 2 h 'est Guideline 201
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	
12.2	Persis	tence and degradabil	ity		
	Compo	onents:			
	Metamizol: Biodegradability				
			:	Result: Not readil Biodegradation:	
	Benzyl	alcohol:			
	Biodegradability		:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d	
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	Benzyl alcohol: Partition coefficient: n- octanol/water		:	log Pow: 1.05	
	12.4 Mobility in soil No data available				
12.5 Results of PBT and vPvB assessment			sse	ssment	
to be either persistent, bioaccumul		nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			



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12.6 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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance 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 discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082
14.2 UN proper shipping name		
ADN	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamizol)
ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamizol)
RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Metamizol)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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		N.O.S. (Metamizol)	
IAT	Α	: Environmental (Metamizol)	lly hazardous substance, liquid, n.o.s.
14.3 Tra	nsport hazard class(es)		
		Class	Subsidiary risks
AD	N	: 9	
ADF	2	: 9	
RID		: 9	
IMD		: 9	
IAT	-	: 9	
	king group	. 0	
Clas	king group ssification Code ard Identification Number	: III : M6 : 90 : 9	
		. 9	
Clas Haz Lab	king group ssification Code ard Identification Number	: III : M6 : 90 : 9 : (-)	
RID Pac Clas	king group ssification Code ard Identification Number	: III : M6	
Lab	king group	: III : 9 : F-A, S-F	
ΙΑΤ	A (Cargo) king instruction (cargo	: 964	
airci Pac	raft) king instruction (LQ) king group	: Y964 : III : Miscellaneous	
Pac ger Pac	A (Passenger) king instruction (passen- aircraft) king instruction (LQ)	: 964 : Y964	
Pac Lab	king group els	: III : Miscellaneous	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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14.5 Environmental hazards

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 user

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

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	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.
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable



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	EACH List of substanc x XIV)	es subject to authorisa	tion :	Not applicable	
GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation					
		azards Regulations 201	5 (COMAH	H)	
E2	·	ENVIRONMENT HAZARDS	AL	Quantity 1 200 t	Quantity 2 500 t

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.		
Full text of H-Statements				
H302	:	Harmful if swallowed.		
H319	:	Causes serious eye irritation.		
H332	:	Harmful if inhaled.		
H361	:	Suspected of damaging fertility or the unborn child.		
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.		
H411	:	Toxic to aquatic life with long lasting effects.		
Full text of other abbreviations				
Acute Tox. Aquatic Chronic Eye Irrit. Repr. STOT RE	:	Acute toxicity Long-term (chronic) aquatic hazard Eye irritation Reproductive toxicity Specific target organ toxicity - repeated exposure		
ADN European Agreement expeription the International Carriage of Dangerous Goods by Island				

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-



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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 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
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification of the	Classification procedure:	
Repr. 2	H361	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 2	H411	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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