

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
8.1	28.09.2024	673823-00025	Date of first issue: 12.05.2016

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

1.1	Product identifier Trade name	:	Phenylbutazone Formulation
1.2	Relevant identified uses of th	ne s	ubstance 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)				
Acute toxicity, Category 4	H302: Harmful if swallowed.			
Eye irritation, Category 2	H319: Causes serious eye irritation.			

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed. H319 Causes serious eye irritation.

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



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Preca	uutionary statements	P270 D	n: ash skin thoroughly after handling. o not eat, drink or smoke when using this product. ear eye protection/ face protection.
			312 + P330 IF SWALLOWED: Call a POISON doctor if you feel unwell. Rinse mouth.

Hazardous components which must be listed on the label:

Phenylbutazone

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 20 %

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.

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)
Phenylbutazone	50-33-9 200-029-0	Acute Tox. 3; H301 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 245 mg/kg	>= 20 - < 30
Substances with a workplace	exposure limit :		



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Ascor	bic acid	50-81-7 200-066-2		>= 1 - < 10

For explanation of abbreviations see section 16.

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 if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms a	nd e	ffects, both acute and delayed
Risks	:	Harmful if swallowed. Causes serious eye irritation.
		Contact with dust can cause mechanical irritation or drying of the skin.
4.3 Indication of any immediate	mec	lical attention and special treatment needed
Treatment	:	Treat symptomatically and supportively.



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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.
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 Nitrogen oxides (NOx)
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- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
	Unsuitable extinguishing media Special hazards arising from Specific hazards during fire- fighting Hazardous combustion prod- ucts Advice for firefighters Special protective equipment for firefighters Specific extinguishing meth-	media Special hazards arising from the Specific hazards during fire- fighting Hazardous combustion prod- ucts Advice for firefighters Special protective equipment : for firefighters Specific extinguishing meth- :

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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

with compressed any.	Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
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		es, as these mail leased into the Local or nation posal of this mail employed in the mine which reg Sections 13 an	should not be allowed to accumulate on surfac- ay form an explosive mixture if they are re- atmosphere in sufficient concentration. al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. d 15 of this SDS provide information regarding 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 Advice on safe handling	••••	Use only with adequate ventilation. Do not breathe dust. Do not swallow. Do not get in 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.
Hygiene measures	:	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 contami- nated clothing before re-use.
7.2 Conditions for safe storage, ir	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents
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
Phenylbutazone	50-33-9	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm ²	Internal
Silicon, amorphous	112945-52-	TWA (respirable	1,5 mg/m3	FOR-2011-
	5	dust)	(Silica)	12-06-1358
Ascorbic acid	50-81-7	TWA	5000 µg/m3 (OEB 1)	Internal

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Apply measures to prevent dust explosions.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Eye/face protection	:	Wear the following personal protective equipment: Safety goggles Equipment should conform to NS EN 166
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Respiratory protection	:	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 143
Filter type	:	Particulates type (P)



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	white
Odour	:	citrus
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	No data available
Relative vapour density	:	No data available

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Particle characteristics Particle size		:	No data available	e
9.2 Other information Explosives		:	Not explosive	
Oxi	dizing properties	: -	The substance o	r mixture is not classified as oxidizing.
Eva	poration rate	:	No data available	e
Mol	ecular weight	:	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 :		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.
10.5 Incompatible materials		
	•	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 exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		

Product:

Acute oral toxicity

: Acute toxicity estimate: 1.225 mg/kg



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		Method: Calcu	lation method
<u>Comp</u>	oonents:		
Pheny	ylbutazone:		
Acute	oral toxicity	: LD50 (Rat): 24	l5 mg/kg
		LD50 (Mouse)	: 238 mg/kg
		LD50 (Dog): 3	32 mg/kg
Ascor	rbic acid:		
Acute	oral toxicity	: LD50 (Rat): 11	.900 mg/kg
	corrosion/irritation		
	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
	rbic acid:		
Specie		: Rabbit : OECD Test Gu	videline 101
N/lotho			
Metho Result		: No skin irritatio	
Result Serio Cause		: No skin irritatio	
Result Serior Cause <u>Comp</u>	t us eye damage/eye es serious eye irritatio	: No skin irritatio	
Result Serior Cause <u>Comp</u> Pheny Specie	t us eye damage/eye es serious eye irritatic <u>ponents:</u> ylbutazone: es	: No skin irritation on. : Rabbit	n
Result Serior Cause <u>Comp</u> Pheny	t us eye damage/eye es serious eye irritatic <u>ponents:</u> ylbutazone: es	: No skin irritation on. : Rabbit	
Result Serior Cause <u>Comp</u> Pheny Specie Result	t us eye damage/eye es serious eye irritatic <u>ponents:</u> ylbutazone: es	: No skin irritation on. : Rabbit	n
Result Serior Cause Comp Specie Result Ascor Specie	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t r bic acid: es	: No skin irritation irritation on. : Rabbit : Irritation to eye : Rabbit	on es, reversing within 21 days
Result Serior Cause Comp Specie Result Ascor Specie Metho	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t r bic acid: es od	: No skin irritation irritation on. : Rabbit : Irritation to eye : Rabbit : OECD Test Gu	on es, reversing within 21 days uideline 405
Result Serior Cause Comp Specie Result Ascor Specie	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t r bic acid: es od	: No skin irritation irritation on. : Rabbit : Irritation to eye : Rabbit	on es, reversing within 21 days uideline 405
Result Serior Cause Comp Pheny Specie Result Ascor Specie Result	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t r bic acid: es od	 No skin irritation irritation m. Rabbit Irritation to eye Rabbit OECD Test Gu No eye irritation 	on es, reversing within 21 days uideline 405
Result Serior Cause Comp Pheny Specie Result Result Result Result	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t rbic acid: es od t	 No skin irritation irritation m. Rabbit Irritation to eye Rabbit OECD Test Ge No eye irritation 	on es, reversing within 21 days uideline 405
Result Serior Cause Comp Pheny Specie Result Ascor Specie Metho Result Result Skin s Not cla Respi	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t rbic acid: es od t iratory or skin sensi sensitisation assified based on ava iratory sensitisation	 No skin irritation irritation m. Rabbit Irritation to eye Rabbit OECD Test Ge No eye irritation 	on es, reversing within 21 days uideline 405
Result Serior Cause Comp Pheny Specie Result Ascor Specie Metho Result Result Skin s Not cla Not cla	t us eye damage/eye es serious eye irritation <u>ponents:</u> ylbutazone: es t rbic acid: es od t iratory or skin sensi sensitisation assified based on ava iratory sensitisation assified based on ava	 No skin irritation irritation m. Rabbit Irritation to eye Rabbit OECD Test Ge No eye irritation 	es, reversing within 21 days Juideline 405
Result Serior Cause Comp Pheny Specie Result Ascor Specie Metho Result Result Skin s Not cla Not cla Comp	t us eye damage/eye es serious eye irritatio <u>ponents:</u> ylbutazone: es t rbic acid: es od t iratory or skin sensi sensitisation assified based on ava iratory sensitisation	 No skin irritation irritation m. Rabbit Irritation to eye Rabbit OECD Test Ge No eye irritation 	es, reversing within 21 days Juideline 405

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Expo Spec Resu		:	Skin contact Guinea pig negative	
	n cell mutagenicity classified based on avail	able	information.	
<u>Com</u>	ponents:			
	nylbutazone:		Tast Type: Pasta	rial reverse mutation access (AMES)
Gend	otoxicity in vitro	•	Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: positive	nosome aberration test in vitro
			Test Type: In vitro malian cells Result: negative	o sister chromatid exchange assay in mam-
			Test Type: Chron Result: negative	nosomal aberration
Geno	otoxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
			Species: Mouse	nt dominant lethal test (germ cell) (in vivo) e: Intraperitoneal injection
			Test Type: Micror Species: Mouse Application Route Result: positive	
	n cell mutagenicity- As- ment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
Asco	orbic acid:			
Gend	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: Chron Result: negative	nosome aberration test in vitro

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Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Ingestion
	nogenicity assified based on ava	ilable information.	
	oonents:		
Phen	ylbutazone:		
Speci Applic	es cation Route sure time	: Rat : Ingestion : 103 weeks : positive	
	cation Route sure time	: Mouse : Ingestion : 103 weeks : positive	
Carcir ment	nogenicity - Assess-	: Weight of ev cinogen	idence does not support classification as a ca
Asco	rbic acid:		
	cation Route sure time	: Mouse : Ingestion : 2 Years : negative	
•	oductive toxicity assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
	ylbutazone:		
Effect ment	s on foetal develop-	Species: Rat Application F	Route: Ingestion al toxicity: NOAEL: 42 mg/kg body weight
		Species: Ral	Route: Ingestion
		Species: Ral Application F	mbryo-foetal development obit Route: Ingestion al toxicity: NOAEL: 60 mg/kg body weight
		11 /	

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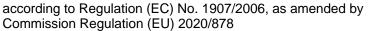
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		Result: negative	
Asco	rbic acid:		
Effect	ts on foetal develop-	: Test Type: Embryo-foetal d	evelopment
ment		Species: Rat	
		Application Route: Ingestion Result: negative)
		rooun nogativo	
	- single exposure		
Not c	lassified based on ava	ble information.	
	- repeated exposure		
Not c	lassified based on ava	ble information.	
Repe	ated dose toxicity		
Com	ponents:		
Phen	ylbutazone:		
Spec		: Rat	
NOAI LOAE		: 50 mg/kg	
	cation Route	: 100 mg/kg : Ingestion	
	sure time	: 13 Weeks	
	et Organs	: Kidney	
Rema		: Significant toxicity observed	l in testing
Spec	es	: Mouse	
NOAI		: 150 mg/kg	
Appli	cation Route	: Ingestion	
Expo	sure time	: 13 Weeks	
Asco	rbic acid:		
Spec	es	: Rat, male	
NOAI		: >= 8.100 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 13 Weeks	
Aspii	ation toxicity		
-	lassified based on ava	ble information.	
1.2 Infor	mation on other haza	ds	
	mation on other haza		

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.





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SECTION 12: Ecological information

12.1 Toxicity

Components:		
Phenylbutazone:		
Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity Ascorbic acid:	:	Toxic effects cannot be excluded
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1.020 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to microorganisms	:	EC50 : 140 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8

12.2 Persistence and degradability

Components:

Ascorbic acid:

Biodegradability	: Result: Readily biodegradable.
	Biodegradation: 97 %
	Exposure time: 5 d
	Method: OECD Test Guideline 302

12.3 Bioaccumulative potential

: log Pow: 3,16
: log Pow: -1,85

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

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very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good Not regulated as a dangerous good
	:	5 5 5
RID	-	Not regulated as a dangerous good

14.3 Transport hazard class(es)

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ADN		:	Not regulated as	a dangerous good
ADR		:	: Not regulated as a dangerous good	
RID		:	: Not regulated as a dangerous good	
IMDO	G	:	: Not regulated as a dangerous good	
ΙΑΤΑ	l l	:	: Not regulated as a dangerous good	
14.4 Packing group				
ADN		:	Not regulated as	a dangerous good
ADR		:	Not regulated as	a dangerous good
RID		:	Not regulated as	a dangerous good
IMDO	G	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Cargo)	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Passenger)	:	Not regulated as	a dangerous good
14.5 Environmental hazards				
Not regulated as a dangerous good				
14.6 Special precautions for user Not applicable				

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 75: If you intend to use this product as tattoo ink, please contact your vendor.
	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



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Regulation (EC) on substances that deplete the ozone : Not applicable layer Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable tants (recast) Regulation (EU) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable					
Th AIC	•	oduct are reported in : not determined	n the following inventories:		
DS	L	: not determined			
IEC	IECSC : not determined				
15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.					
SECTION	ON 16: Other informati	on			
Oth	ner information		anges have been made to the previous version in the body of this document by two vertical		
Ful	II text of H-Statements				
H3		: Toxic if swallow			
H3		: Causes serious	eye irritation.		
	Il text of other abbreviati				
	ute Tox. e Irrit.	: Acute toxicity : Eye irritation			

Acute Tox.	:	Acute toxicity
Eye Irrit.	:	Eye irritation
FOR-2011-12-06-1358	:	Norway. Occupational Exposure limits
FOR-2011-12-06-1358 /	:	Long term exposure limit
TWA		

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;



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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 compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Sheet		cy, http://echa.eu/opa.eu/

Classification of the mix	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Irrit. 2	H319	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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