

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

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

1.1 Product identifier		
Trade name	:	Human Chorionic Gonadotropin Formulation (Veterinary)
Other means of identification	:	Chorulon 1500 IU (A001419) Chorulon 5000 IU (A002377) CHORULON CHORIONIC GONADOTROPHIN 5000 IU (37225)
1.2 Relevant identified uses of the	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 / Emergency telephone number	ar	

## 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 1A	H360Fd: May damage fertility. Suspected of dam- aging the unborn child.				
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through pro- longed or repeated exposure.				
Label elements					

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Commission Regulation (EU) 2020/878



# Human Chorionic Gonadotropin Formulation (Veterinary)

Version 2.5	Revision Date: 28.09.2024	-	SDS Number: 3707704-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021
Haz	ard pictograms	:		
Sigr	al word	:	Danger	
Haz	ard statements	:	H360Fd H372	May damage fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
Prec	cautionary statements	:	<b>Prevention:</b> P201 P260 P264 P270 P280 <b>Response:</b>	Obtain special instructions before use. Do not breathe dust. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this prod- uct. Wear protective gloves/ protective clothing/ eye protection/ face protection.
			P308 + P313	3 IF exposed or concerned: Get medical advice/

attention.

#### Hazardous components which must be listed on the label:

Gonadotropin, chorionic

#### 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.	Classification	Concentration	



Version 2.5	Revision Date: 28.09.2024	SDS Number: 8707704-00012	Date of last issue: 06.04.202 Date of first issue: 03.06.202	=
Gona	dotropin chorionic	EC-No. Index-No. Registration n 9002-61-3	umber Repr. 1A; H360Fd	(% w/w)
	Gonadotropin, chorionic		specific concentration limit Repr. 1A; H360Fd >= 0.01 % STOT RE 1; H372 >= 0.01 %	

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

Risks	: May damage fertility. Suspected of damaging the unborn
	child.
	Causes damage to organs through prolonged or repeated



Versior 2.5	n Revision Date: 28.09.2024		DS Number: 07704-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021
			exposure.	
			Contact with dust the skin.	can cause mechanical irritation or drying of
				the eyes can lead to mechanical irritation.
4.3 Ind	ication of any immediate I	meo	dical attention and	d special treatment needed
Tr	eatment	:	Treat symptomat	cally and supportively.
SECTI	ON 5: Firefighting meas	sur	es	
5.1 Ext	inguishing media			
Su	uitable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsuitable extinguishing media		:	None known.	
5.2 Spe	ecial hazards arising from	the	e substance or mi	xture
	becific hazards during fire- hting	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. bustion products may be a hazard to health.
	Hazardous combustion prod- : Carbon oxides ucts Nitrogen oxides (NOx) Sulphur oxides		NOx)	
5.3 Ad	vice for firefighters			
Special protective equipmentIn the event of fire, wear self-contained breathing apparfor firefightersUse personal protective equipment.				
Sp od	becific extinguishing meth- ls	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

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



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

### 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

	Methods for cleaning up	:	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal.</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>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.</li> <li>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.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>
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## 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 bending or inert atmospheres
			and bonding, or inert atmospheres.
	Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
	Advice on safe handling	•	Do not get on skin or clothing.
	, lattice off care flationing	•	Do not breathe dust.
			Do not swallow.
			Avoid contact with eyes.
			Wash skin thoroughly after handling.
			Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
			Keep container tightly closed.
			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.



Version 2.5	Revision Date: 28.09.2024	SDS Number: 8707704-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021			
Hygier	e measures	environment. : If exposure to flushing syste place. When	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 Conditi	ons for safe storage,	including any ind	compatibilities			
Requirements for storage areas and containers			Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.			
Advice	on common storage	Strong oxidiz	substances and mixtures			
-	<b>c end use(s)</b> c use(s)	: No data avai	lable			

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

dusts non-specific

### **Occupational Exposure Limits**

4 mg/m3 Value type (Form of exposure): OELV - 8 hrs (TWA) (Respirable dust) Basis: IE OEL

10 mg/m3 Value type (Form of exposure): OELV - 8 hrs (TWA) (inhalable dust) Basis: IE OEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Gonadotropin, chorionic	9002-61-3	TWA	OEB 4 (3 µg/m3)	Internal
		Wipe limit	25 μg/100 cm <sup>2</sup>	Internal

#### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations. Apply measures to prevent dust explosions.



Version 2.5	Revision Date: 28.09.2024		umber: )4-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021		
ces (i.e	Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and pro- cessing 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). If sufficient ventilation is unavailable, use with local exhaust ventilation.					
Per	sonal protective equipr	nent				
Eye	Eye/face protection :		Wear the following personal protective equipment: Safety goggles Equipment should conform to I.S. EN 166			
Har	nd protection					
Material :		: Ch	Chemical-resistant gloves			
	Remarks	on sta det app che glo	the concentrat nce and specif ermined for the plications, we r emicals of the a	protect hands against chemicals depending ion and quantity of the hazardous sub- ic to place of work. Breakthrough time is not e product. Change gloves often! For special ecommend clarifying the resistance to aforementioned protective gloves with the er. Wash hands before breaks and at the		
Ski	n and body protection	: Sel res pot Ski	<ul> <li>Select appropriate protective clothing based on chemi resistance data and an assessment of the local expos potential.</li> <li>Skin contact must be avoided by using impervious pro clothing (gloves, aprons, boots, etc).</li> </ul>			
Res	spiratory protection	: If a sur om	dequate local e assessment mended guide	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection. d conform to I.S. EN 143		
	Filter type		ticulates type			

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	:	powder
Colour	:	off-white
Odour	:	odourless
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.



Vers 2.5	sion	Revision Date: 28.09.2024		S Number: 07704-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021
	Flamm	ability (liquids)	:	No data available	9
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	2
	Flash p	point	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	No data available	9
	Viscos Visc	ity cosity, kinematic	:	No data available	9
	Solubil Wa	ity(ies) ter solubility	:	soluble	
	Partitio octano	n coefficient: n- I/water	:	No data available	2
	Vapou	r pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	No data available	9
9.2	Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	9
	Molecu	ılar weight	:	No data available	9



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

### **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	<ul> <li>May form explosive dust-air mixture during processing, han- dling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>
10.4 Conditions to avoid	

Conditions to avoid	:	Heat, flames and sparks.
		Avoid dust formation.

#### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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#### **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		Skin contact
		Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.



Vers 2.5	ion	Revision Date: 28.09.2024		0S Number: 07704-00012	Date of last issue: 06.04.2024 Date of first issue: 03.06.2021
	<b>Carcinogenicity</b> Not classified based on available i		information.		
	<b>Reproductive toxicity</b> May damage fertility. Suspected of damaging the unborn child.				born child.
	Components:				
Gonadotropin, chorionic:					
	Effects	on fertility	:	Fertility: LOAEL: & Result: Effects on Test Type: Fertility Application Route	: Intravenous injection 3.89 mg/kg body weight fertility y : Intraperitoneal injection 0.883 mg/kg body weight
				Test Type: Fertility Species: Monkey Fertility: LOAEL: ( Result: Effects on	).224 mg/kg body weight
	Effects ment	on foetal develop-	:	Species: Hamster Application Route	: Intraperitoneal injection icity: LOAEL: 60 mg/kg body weight
	Reprod sessme	luctive toxicity - As- ent	:	fertility from huma	of adverse effects on sexual function and in epidemiological studies., Some evidence on development, based on animal experi-

### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Components:

#### Gonadotropin, chorionic:

Target Organs	:	Ovary
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

## Aspiration toxicity

Not classified based on available information.



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Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

#### 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:**

#### Gonadotropin, chorionic:

Inhalation

Target Organs: ovaries Symptoms: effects on menstruation, gynecomastia, Headache, mental depression, Irritability, restlessness, Fatigue

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

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

#### 12.6 Endocrine disrupting properties

#### Product:

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.	Assessment	: The substance/mixture does not contain components consid- ered 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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Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

#### 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	:	

## **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	:	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
14.3 Transport hazard class(es)		
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
14.4 Packing group		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good



Version 2.5	Revision Date: 28.09.2024	SDS Num 8707704-		Date of last issue: 06.04.2024 Date of first issue: 03.06.2021			
RID		: Not re	: Not regulated as a dangerous good				
IMDG		: Not re	: Not regulated as a dangerous good				
IATA (	(Cargo)	: Not re	: Not regulated as a dangerous good				
ΙΑΤΑ (	(Passenger)	: Not re	egulated 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)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Covere III, Directive 2012/10/ELL of the Evrence Derlier	mant	and of the Counci

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

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

#### 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		
H360Fd	:	May damage fertility. Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
Full text of other abbreviation	ons	
Repr. STOT RE IE OEL	:	Reproductive toxicity Specific target organ toxicity - repeated exposure Ireland. List of Chemical Agents and Carcinogens with Occu- pational Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TWA)	:	Occupational exposure limit value (8-hour reference period)

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



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.5	28.09.2024	8707704-00012	Date of first issue: 03.06.2021

striction 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; 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 Sheet		eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Sheet		cy, mp.//echa.europa.eu/

Classification of the mixtur	Classification procedure:	
Repr. 1A	H360Fd	Calculation method
STOT RE 1	H372	Calculation method

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

IE / EN