

Pancrelipase Formulation

Versic 1.3	on	Revision Date: 09.04.2021		DS Number: 322043-00004	Date of last issue: 10.10.2020 Date of first issue: 22.11.2019			
SECI	TION	1: Identification of	the	substance/mixt	ure and of the company/undertaking			
	roduct Frade r	i dentifier name	:	Pancrelipase For	mulation			
1.2 Re	elevan	t identified uses of t	he s	substance or mixt	ure and uses advised against			
-		the Sub- Mixture	:	Pharmaceutical				
1.3 De	1.3 Details of the supplier of the safety data sheet							
С	Compa	ny	:	Organon & Co. 30 Hudson Street 07302 Jersey Cit	:, 33nd floor y, New Jersey, U.S.A			
Т	Felepho	one	:	551-430-6000				
		address of person sible for the SDS	:	EHSSTEWARD@	0organon.com			
1.4 Er	merge	ncy telephone numb	er					

215-631-6999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 Eye irritation, Category 2 Respiratory sensitisation, Category 1 H315: Causes skin irritation.H319: Causes serious eye irritation.H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2 Label elements

Labelling (REGULATION (Hazard pictograms	EC) :	No 1272/2008)
Signal word	:	Danger
Hazard statements	:	 H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	:	Prevention:P264Wash skin thoroughly after handling.P280Wear protective gloves/ eye protection/ face protection.



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		Response:	
		P304 + P340 keep comforta	IF INHALED: Remove person to fresh air and ble for breathing.
		P332 + P313 attention.	If skin irritation occurs: Get medical advice/
		P337 + P313 attention.	If eye irritation persists: Get medical advice/
		P342 + P311 POISON CEN	If experiencing respiratory symptoms: Call a TER/ doctor.

Hazardous components which must be listed on the label: Pancrelipase

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.

May form combustible dust concentrations in air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Pancrelipase	53608-75-6 258-659-7	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334	>= 50 - < 70

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	vice immediatel	ccident or if you feel unwell, seek medical ad- y. s persist or in all cases of doubt seek medical
Protection of first-aiders	and use the rec	ders should pay attention to self-protection, ommended personal protective equipment tial for exposure exists (see section 8).
If inhaled		give artificial respiration. ifficult, give oxygen.



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In c	case of skin contact	for at least 15 and shoes. Get medical at Wash clothing	
In c	case of eye contact	for at least 15	emove contact lens, if worn.
lf s	wallowed	Get medical at	OO NOT induce vomiting. tention if symptoms occur. horoughly with water.
4.2 Mos	t important symptoms a	nd effects. both ac	ute and delaved
Risks		: Causes skin in Causes seriou	itation.
		other respirato	osure may aggravate preexisting asthma and ry disorders (e.g. emphysema, bronchitis, reac-sfunction syndrome).
13 Indi	cation of any immediate	modical attention	and special treatment needed
	atment		natically and supportively.
SECTIO	ON 5: Firefighting mea	sures	
5.1 Exti	nguishing media		
	table extinguishing media	: Water spray Alcohol-resista Carbon dioxide Dry chemical	
Un: me	suitable extinguishing dia	: High volume w	ater jet
5.2 Spe	cial hazards arising from	the substance or	mixture

Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulphur oxides



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			Metal oxides	
Specia for firef	for firefighters I protective equipment ighters c extinguishing meth-	:	Use personal pro Use extinguishing cumstances and Use water spray	e, wear self-contained breathing apparatus. tective equipment. 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).
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	 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).
	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.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items
	employed in the cleanup of releases. You will need to deter-
	mine 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



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Local/Total ventilation Advice on safe handling			 and bonding, or inert atmospheres. Use only with adequate ventilation. Do not get on skin or clothing. Avoid breathing dust, fume, gas, mist, vapours or spray Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposur sessment Keep container tightly closed. Already sensitised individuals should consult their physi regarding working with respiratory irritants or sensitisers 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 Take care to prevent spills, waste and minimize release environment. If exposure to chemical is likely during typical use, provi 			
, g			flushing systems place. When usin nated clothing be The effective ope engineering contr appropriate dego	and safety showers close to the working g do not eat, drink or smoke. Wash contami- fore re-use. ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the		
7.2 Condi	tions for safe storage,	inc	luding any incom	patibilities		
	irements for storage and containers	:		labelled containers. Keep tightly closed. nce with the particular national regulations.		
Advic	e on common storage	:	Do not store with Strong oxidizing a	the following product types: agents		
7.3 Specif	ic end use(s)					
-	fic 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
Pancrelipase	53608-75-6	TWA	OEB 3 (>= 10 < 100 μg/m3)	Internal
Starch	9005-25-8	TWA OEL-RL (Respirable dust)	5 mg/m3	ZA OEL
	Further inform	ation: Recommende	ed Limit	
		TWA OEL-RL (inhalable dust)	10 mg/m3	ZA OEL



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	Furth	er information: Recom	nended Limit

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Calcium carbonate	Workers	Inhalation	Long-term systemic effects	6,36 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	6,1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,06 mg/m3
	Consumers	Ingestion	Long-term systemic effects	6,1 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Calcium carbonate	Sewage treatment plant	100 mg/l

8.2 Exposure controls

Engineering measures

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

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye 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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties



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	Appear Colour Odour Odour	ance Threshold	:	solid No data available No data available No data available)
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
		oiling point and boiling	:	No data available)
	range Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form combu	stible dust concentrations in air.
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available)
	Density	,	:	No data available	
	Partitio octanol	er solubility n coefficient: n- /water	:	No data available Not applicable	
	Auto-ig	nition temperature	:	No data available	
		position temperature	:	No data available)
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	Not applicable	
	Molecu	lar weight	:	No data available)
	Particle	size	:	No data available)



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SECTION	I 10: Stability and	reactivity		
10.1 Reac Not cl	tivity assified as a reactivit	y hazard.		
10.2 Chem	nical stability e under normal condit	-		
	ibility of hazardous			
	dous reactions	: May form com	bustible dust concentrations in air. strong oxidizing agents.	
10.4 Cond	litions to avoid			
Condi	tions to avoid	: Heat, flames a Avoid dust forr		
10.5 Incon	npatible materials			
	ials to avoid	: Oxidizing ager	ts	
		on products are known		
SECTION	I 11: Toxicological mation on toxicolog nation on likely routes	l information ical effects		
SECTION 11.1 Inform Inform expos	I 11: Toxicological mation on toxicolog nation on likely routes	ical effects of : Inhalation Skin contact Ingestion		
SECTION 11.1 Inform Inform expos	I 11: Toxicological mation on toxicolog nation on likely routes sure	ical effects of : Inhalation Skin contact Ingestion Eye contact	·	
SECTION 11.1 Inform Inform expos Acute Not cl	I 11: Toxicological mation on toxicolog nation on likely routes sure	ical effects of : Inhalation Skin contact Ingestion Eye contact		
SECTION 11.1 Inform Inform expose Acute Not cl <u>Comp</u> Pance	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on ava	ical effects of : Inhalation Skin contact Ingestion Eye contact		
SECTION 11.1 Inform Inform expose Acute Not cl <u>Comp</u> Pance Acute Skin o	I 11: Toxicological mation on toxicolog nation on likely routes sure e toxicity assified based on ava <u>conents:</u> relipase:	I information ical effects a of : Inhalation Skin contact Ingestion Eye contact ailable information.		
SECTION 11.1 Inform Inform expose Acute Not cl Comp Pance Acute Skin of Cause	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on ava <u>conents:</u> relipase: oral toxicity corrosion/irritation	I information ical effects a of : Inhalation Skin contact Ingestion Eye contact ailable information.		
SECTION 11.1 Inform Inform expose Acute Not cl Comp Pance Acute Skin of Cause Comp Pance	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on avainable conents: relipase: oral toxicity corrosion/irritation es skin irritation. conents: relipase:	I information ical effects of : Inhalation Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 1		
SECTION 11.1 Inform Inform expose Acute Not cl Comp Pance Skin of Cause Cause Dance Speci	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on avainable conents: relipase: oral toxicity corrosion/irritation es skin irritation. conents: relipase: es	I information ical effects of : Inhalation Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 1 : Rabbit	0.000 mg/kg	
SECTION 11.1 Inform Inform expose Acute Not cl Comp Pance Acute Skin of Cause Comp Pance	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on ava <u>conents:</u> relipase: oral toxicity corrosion/irritation es skin irritation. <u>conents:</u> relipase: es sod	I information ical effects s of : Inhalation Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 1 : Rabbit : OECD Test Gu : Skin irritation	0.000 mg/kg	
SECTION 11.1 Inform expose Acute Not cl Comp Pance Skin of Cause Cause Dance Skin of Cause Cause Cause Cause Cause Resul Rema	I 11: Toxicological mation on toxicolog nation on likely routes sure toxicity assified based on ava <u>conents:</u> relipase: oral toxicity corrosion/irritation es skin irritation. <u>conents:</u> relipase: es sod	I information ical effects of : Inhalation Skin contact Ingestion Eye contact ailable information. : LD50 (Rat): > 1 : Rabbit : OECD Test Gu : Skin irritation : Based on data	0.000 mg/kg ideline 404	



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<u>Comp</u>	oonents:			
Pancı Resul Rema	-	:		reversing within 21 days om similar materials
Respi	iratory or skin sensit	isatio	on	
Skin s	sensitisation assified based on ava			
-	iratory sensitisation ause allergy or asthm	a syn	nptoms or breathin	g difficulties if inhaled.
Comp	oonents:			
	t	:	Inhalation Humans positive Based on data fre	om similar materials
Asses	ssment	:	May cause sensi	tisation by inhalation.
Not cl	cell mutagenicity assified based on ava conents:	ilable	information.	
	relipase:			
Geno	toxicity in vitro		Method: OECD T Result: negative Remarks: Based Test Type: In vitr Method: OECD T Result: negative Remarks: Based Test Type: Chror Method: OECD T Result: negative	rial reverse mutation assay (AMES) Test Guideline 471 on data from similar materials o mammalian cell gene mutation test Test Guideline 476 on data from similar materials nosome aberration test in vitro Test Guideline 473 on data from similar materials

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Pancrelipase:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study



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		Species: Rat Application Route Result: negative Remarks: Based	e: Ingestion on data from similar materials
Effects on foetal develop- ment		 Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials 	

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Pancrelipase:

Species :	Rat
NOAEL :	> 100 mg/kg
Application Route :	Ingestion
Exposure time :	13 Weeks
Method :	OECD Test Guideline 408
Remarks :	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Pancrelipase:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials



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		Exposure time: 7 Method: OECD 1	esmus subspicatus (green algae)): > 1 mg/l 2 h Fest Guideline 201 on data from similar materials
stence and degradabi	lity		
onents:			
elipase: gradability	:	Result: Readily b	viodegradable.
cumulative potential			
onents:			
elipase: on coefficient: n- ol/water	:	log Pow: < 4	
ity in soil ta available			
Its of PBT and vPvB a	sse	ssment	
<u>ict:</u> sment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
adverse effects			
Ict: rine disrupting poten-	:	ered to have end REACH Article 5	nixture does not contain components consid- locrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at
	09.04.2021 stence and degradabil conents: elipase: gradability cumulative potential conents: elipase: on coefficient: n- ol/water ity in soil ta available its of PBT and vPvB a act: sment	09.04.2021 53 stence and degradability sonents: elipase: gradability gradability coments: elipase: gradability coments: elipase: on coefficient: n- on coefficient: n- ity in soil ta available ts of PBT and vPvB asses adverse effects adverse effects	09.04.2021 5322043-00004 NOEC (Desmode Exposure time: 7 Method: OECD T Remarks: Based stence and degradability sonents: elipase: gradability coments: elipase: gradability conents: elipase: on coefficient: n- ity in soil ta available tts of PBT and vPvB assessment tct: sment : This substance/n to be either persi very persistent a 0.1% or higher. adverse effects ett: erine disrupting poten- : The substance/n

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.
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.



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SECTIO	N 14: Transport inf	ormation	
14.1 UN n Not r	number egulated as a dangero	ous good	
-	oroper shipping name		
14.3 Tran	sport hazard class(e egulated as a dangerd	s)	
	ting group egulated as a dangero	ous good	
-	ronmental hazards egulated as a dangerd	ous good	
-	cial precautions for u	Iser	
14.7 Tran	sport in bulk accord	ing to Annex II of Mar	pol and the IBC Code
Rema	arks	: Not applicable	for product as supplied.
SECTIO	N 15: Regulatory in	formation	
15.1 Safe ture	ty, health and enviro	nmental regulations/I	egislation specific for the substance or mix-
The	components of this p	product are reported i	n the following inventories:
AICS	i	: not determined	
DSL		: not determined	
IECS	C	: not determined	
15.2 Cher	nical safety assessm	nent	
A Chemic	al Safety Assessment	has not been carried o	ut.
SECTIO	N 16: Other informa	ation	
Othe	r information		anges have been made to the previous version

Full text of H-Statements

H319 :	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.		
Full text of other abbreviations			

are highlighted in the body of this document by two vertical

Eye Irrit.	:	Eye irritation
Resp. Sens.	:	Respiratory sensitisation

lines.



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ZA	n Irrit. OEL OEL / TWA OEL-RL	Occupational E	azardous Chemical Substances Regulations, xposure Limits pational exposure limits - recommended limit
Wa Go the Re Sta EC cei Err tra Go Sh tioi Sh tioi arc tes Inte fied Ch of sta tati Pa SV To Re	terways; ADR - Europea ods by Road; AIIC - Austr Testing of Materials; bw gulation (EC) No 1272/20 ndard of the German Inst HA - European Chemical that - Transport Associat ps carrying Dangerous Cl ternational Civil Aviation (an; IMDG - International ternational Civil Aviation (an; ISHL - Industrial Safety ization; KECI - Korea Exist to population; LD50 - Lethat ernational Convention for the population; LD50 - Lethat ernational Convention for the court of Chemical that and of the Court cliament and cliament cliament	an Agreement conce alian Inventory of Ind - Body weight; CLP - 008; CMR - Carcinog itute for Standardisat s Agency; EC-Numb % response; ELx - Lo 6 - Existing and New growth rate response ARC - International A ion; IBC - Internation international A ion; IBC - International A ion; IBC - Inter	hational Carriage of Dangerous Goods by Inland rning the International Carriage of Dangerous ustrial Chemicals; ASTM - American Society for - Classification Labelling Packaging Regulation; gen, Mutagen or Reproductive Toxicant; DIN - ion; DSL - Domestic Substances List (Canada); er - European Community number; ECx - Con- ading rate associated with x% response; EmS - Chemical Substances (Japan); ErCx - Concen- e; GHS - Globally Harmonized System; GLP - gency for Research on Cancer; IATA - Interna- al Code for the Construction and Equipment of 0 - Half maximal inhibitory concentration; ICAO - Inventory of Existing Chemical Substances in Goods; IMO - International Maritime Organiza- oan); ISO - International Organisation for Stand- ntory; LC50 - Lethal Concentration to 50 % of a est population (Median Lethal Dose); MARPOL - lution from Ships; n.o.s Not Otherwise Speci- oncentration; NO(A)EL - No Observed (Adverse) ading Rate; NZIoC - New Zealand Inventory of Co-operation and Development; OPPTS - Office T - Persistent, Bioaccumulative and Toxic sub- Is and Chemical Substances; (Q)SAR - (Quanti- Regulation (EC) No 1907/2006 of the European Registration, Evaluation, Authorisation and Re- rning the International Carriage of Dangerous position Temperature; SDS - Safety Data Sheet; Taiwan Chemical Substance Inventory; TSCA - N - United Nations; UNRTDG - United Nations s Goods; vPvB - Very Persistent and Very Bio-

Further information

Resp. Sens. 1

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 Agency, http://echa.europa.eu/	
Classification of the mixtur	re:		Classification procedure:
Skin Irrit. 2	H3	15	Calculation method
Eye Irrit. 2	H3	19	Calculation method

H334

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

Calculation method



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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.

ZA / EN