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

1.1 Product identifier Trade name	:	Isometamidium			
1.2 Relevant identified uses of the	he 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 safety 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 3 H301: Toxic if swallowed.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H301 Toxic if swallowed.
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling.



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P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

Storage:

P405 Store locked up.

Hazardous components which must be listed on the label:

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 100 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
8-[3-(m-Amidinophenyl)-2-triazeno]- 3-amino-5-ethyl-6- phenylphenanthridinium chloride hydrochloride	6798-24-9 229-873-8	Acute Tox. 3; H301 Acute toxicity esti- mate Acute oral toxicity: 300 mg/kg	>= 90 - <= 100

For explanation of abbreviations see section 16.



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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	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.				
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.				
4.2 Most important symptoms a	4.2 Most important symptoms and effects, both acute and delayed					
Risks	:	Toxic if swallowed.				
		Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.				
•	me	dical attention and special treatment needed				
Treatment	:	Treat symptomatically and supportively.				

SECTION 5: Firefighting measures

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

Unsuitable extinguishing	:	No
media		



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5.2 S	5.2 Special 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. Exposure to combustion products may be a hazard to health.				
	Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (NOx) Chlorine compounds			
5.3 A	dvice	for firefighters					
		protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.		
	Specifio ods	c extinguishing meth-	:	cumstances and t Use water spray t	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

• • •	•	•	•	51
Personal precautions	: Us	e personal prote	ective ec	quipment.
	Fol	low safe handlir	ng advic	e (see section 7) and personal pro-
	tec	tive equipment r	recomm	endations (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.
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6.3 Methods and material for containment and cleaning up

Μ	ethods 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.

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



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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

1.1 Frecautions for sale nanuling	1	
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 dust.
Advice on sale handling	•	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-
		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.
		Take care to prevent spills, waste and minimize release to the
		environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the
		use of administrative controls.
7.2 Conditions for safe storage, i	ncl	uding any incompatibilities
Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types:
Ũ		Strong oxidizing agents
		Self-reactive substances and mixtures
		Organic peroxides
		Explosives
		Gases

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

Dust

5 mg/m3 Value type (Form of exposure): TWA (respirable dust) Basis: FOR-2011-12-06-1358

10 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: FOR-2011-12-06-1358

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
8-[3-(m- Amidinophenyl)-2- triazeno]-3-amino- 5-ethyl-6- phenylphenan- thridinium chloride hydrochloride	6798-24-9	TWA	OEB 4 (>= 1 < 10 µg/m3)	Internal

8.2 Exposure controls

Engineering measures

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying from a closed system, packout head with inflatable seal from stationary container, ventilated enclosure, etc.).

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

Essentially no open handling permitted.

Use closed processing systems or containment technologies.

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
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



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Respiratory protection		sure assessn ommended g	l clothing. ocal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. nould conform to NS EN 143
Fil	ter type	: Particulates t	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

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



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	octanol	l/water			
	Vapour	rpressure	:	Not applicable	
	Relativ	e density	:	No data available	e
	Density	/	:	No data available	e
	Relative vapour density		:	Not applicable	
	Particle characteristics Particle size		:	No data available	e
9.2	Other in	nformation			
	Explosi	ives	:	Not explosive	
	Oxidizing properties		:	The substance o	r mixture is not classified as oxidizing.
	Evapor	ation rate	:	Not applicable	
	Molecu	ılar weight	:	No data available	e

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 Materials to avoid :	Oxidizing agents
10.6 Hazardous decomposition pro	

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on likely routes of : Inhalation

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



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expos	sure	Skin contac Ingestion Eye contact	-
	e toxicity if swallowed.		
Produ Acute	<u>uct:</u> e oral toxicity		ty estimate: 300 mg/kg Iculation method
<u>Com</u>	ponents:		
	m-Amidinophenyl)-2 ochloride:	triazeno]-3-amino	o-5-ethyl-6-phenylphenanthridinium chloride
•	e oral toxicity	: LD50 (Rabb	it): 300 mg/kg
•••••	corrosion/irritation lassified based on ava	ilable information.	
	ous eye damage/eye i lassified based on ava		
Resp	iratory or skin sensit	isation	
-	sensitisation lassified based on ava	ilable information.	
•	iratory sensitisation lassified based on ava	ilable information.	
Germ	cell mutagenicity		
Not c	lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
	m-Amidinophenyl)-2 ochloride:	triazeno]-3-amino	o-5-ethyl-6-phenylphenanthridinium chloride
-	toxicity in vitro	Result: posi	Bacterial reverse mutation assay (AMES) tive ased on data from similar materials
		Result: nega	n vitro mammalian cell gene mutation test ative ased on data from similar materials
Geno	toxicity in vivo	cytogenetic Species: Ra Application Result: equi	Route: Intraperitoneal injection
Germ	cell mutagenicity- As-	: Weight of ev	vidence does not support classification as a germ



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sessment

cell mutagen.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride:

Effects on foetal develop- ment	:	Test Type: Fertility/early embryonic 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:

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride:

Species :	Rat
NOAEL :	> 10 - 100 mg/kg
LOAEL :	> 100 mg/kg
Application Route :	Ingestion
Exposure time :	13 Weeks
Remarks :	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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SECTION 12: Ecological information

12.1 Toxicity

Components:

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic effects cannot be excluded

Chronic aquatic toxicity : Toxic effects cannot be excluded

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:

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.

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.



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Contaminated packaging	:			
		Contaminated packaging : Empty containers should be taken to an approved waste har dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
SECTION 14: Transport infor	mat	tion		
14.1 UN number or ID number				
ADN	:	UN 2811		
ADR	:	UN 2811		
RID	:	UN 2811		
IMDG	:	UN 2811		
ΙΑΤΑ	:	UN 2811		
14.2 UN proper shipping name				
ADN	:		RGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)	
ADR	:		RGANIC, N.O.S. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)	
RID	:	TOXIC SOLID, ORGANIC, N.O.S. (8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6- phenylphenanthridinium chloride hydrochloride)		
IMDG	:	 TOXIC SOLID, ORGANIC, N.O.S. (8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chloride hydrochloride) 		
ΙΑΤΑ	:		nic, n.o.s. phenyl)-2-triazeno]-3-amino-5-ethyl-6- idinium chloride hydrochloride)	
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADN	:	6.1		
ADR	:	6.1		
RID	:	6.1		
IMDG	:	6.1		
ΙΑΤΑ	:	6.1		
14.4 Packing group				
ADN Packing group Classification Code Hazard Identification Number Labels		III T2 60 6.1		

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



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	Hazard Labels	g group cation Code Identification Number restriction code	: : : : : : : : : : : : : : : : : : : :	III T2 60 6.1 (E)	
		g group cation Code Identification Number	:	III T2 60 6.1	
	IMDG Packing Labels EmS Co		:	III 6.1 F-A, S-A	
	aircraft)	g instruction (cargo	:	677 Y645 III Toxic	
	Packing ger airc	instruction (LQ)	:	670 Y645 III Toxic	
14.	5 Enviro	nmental hazards			
	ADN Environ	mentally hazardous	:	no	
	ADR Environ	mentally hazardous	:	no	
	RID Environ	mentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	
	6 Encoio	I processions for use	-		

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 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

	on the manufacture, placing on certain dangerous substances, annex XVII)	:	Not applicable	
	st of Substances of Very High	:	Not applicable	
	nces subject to authorisation	:	Not applicable	
Regulation (EC) No 100 plete the ozone layer	05/2009 on substances that de-	:	Not applicable	
Regulation (EU) 2019/1 tants (recast)	021 on persistent organic pollu-	:	Not applicable	
Regulation (ÉU) No 649	9/2012 of the European Parlia- oncerning the export and import	:	Not applicable	
0	12/18/EU of the European Parlia	ment	t and of the Counci	il on the control of
	involving dangerous substances			
-			Quantity 1	Quantity 2
H2	ACUTE TOXIC		50 t	200 t

Other regulations:

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

The components of this product are reported in	n the following inventories:
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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 H301	:	Toxic if swallowed.
Full text of other abbreviation	ons	
Acute Tox. FOR-2011-12-06-1358	:	Acute toxicity Norway. Occupational Exposure limits



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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; 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 mixture:

Acute Tox. 3 H301

Classification procedure:

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



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intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN