according to the OSHA Hazard Communication Standard



Isometamidium

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
2.1	09/30/2023	5351280-00009	Date of first issue: 12/11/2019

SECTION 1. IDENTIFICATION

Product name	:	Isometamidium			
Manufacturer or supplier's d	leta	iils			
Company name of supplier	:	Merck & Co., Inc			
Address	:	126 E. Lincoln Avenue			
		Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@merck.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary product			
Restrictions on use	:	Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust				
Acute toxicity (Oral)	:	Category 3		
GHS label elements Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H301 Toxic if swallowed.		
Precautionary Statements	:	Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.		
		Response: P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER. Rinse mouth.		
		Storage: P405 Store locked up.		
		Disposal: P501 Dispose of contents and container to an approved waste disposal plant.		



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Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
8-[3-(m-Amidinophenyl)-2-triazeno]-3-	6798-24-9	100
amino-5-ethyl-6-		
phenylphenanthridinium chloride		
hydrochloride		

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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.
If swallowed	:	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician or poison control center immediately.
		Rinse mouth thoroughly with water.
Most important symptoms		Never give anything by mouth to an unconscious person. Toxic if swallowed.
and effects, both acute and delayed	•	Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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





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			potential dust exp Exposure to com	plosion hazard. Dustion products may be a hazard to health.	
Hazucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (Chlorine compou		
Spe ods	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 so.		
	cial protective equipment re-fighters	:		e, wear self-contained breathing apparatus. tective equipment.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container 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 surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

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.
C C		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.

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	Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene practice, based on the results of the workplace exp 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 discha Do not eat, drink or smoke when using this produc Take care to prevent spills, waste and minimize re environment.		rdance with good industrial hygiene and safety d on the results of the workplace exposure r tightly closed. generation and accumulation. r closed when not in use. m heat and sources of ignition. nary measures against static discharges. hk or smoke when using this product.
Conditions for safe storage		Store locked up Keep tightly clo	osed.
Mate	erials to avoid	: Do not store wi Strong oxidizin	ubstances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace co	Ingredients with workplace control parameters					
inert or nuisance dust	Value type (Fo	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3				
	•••	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3				
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3					
			oot : TWA (respirable fra	action)		
Dust, nuisance dust and par- ticulates	nce dust and par- 10 mg/m³ Value type (Form of exposure): PEL (Total du Basis: CAL PEL					
	5 mg/m³ Value type (Form of exposure): PEL (respirable dust frac Basis: CAL PEL			st fraction)		
Components	CAS-No. Value type Control parame- (Form of ters / Permissible					





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				the second second second	
tria phe	3-(m-Amidinophenyl)-2- zeno]-3-amino-5-ethyl-6- enylphenanthridinium chlo- e hydrochloride	6798-24-9	exposure) TWA	concentration OEB 4 (>= 1 < 10 μg/m3)	Internal
En	gineering measures	are required t the compound from a closed stationary cor All engineerin design and op protect produc Essentially no	o control at sou d to uncontrolle system, packo ntainer, ventilati g controls shou perated in acco cts, workers, ar o open handling	uitable for controlling c urce and to prevent mig d areas (e.g., vacuum but head with inflatable ed enclosure, etc.). uld be implemented by rdance with GMP print and the environment. g permitted. ems or containment tec	gration of conveying seal from facility ciples to
Ре	rsonal protective equipm	ent			
Re	spiratory protection	maintain vapo concentration unknown, app Follow OSHA use NIOSH/M by air purifyin hazardous ch supplied resp release, expo	or exposures be s are above recording respirator regu- ISHA approved g respirators ag emical is limite irator if there is sure levels are where air purif	entilation is recommen elow recommended lim commended limits or a atory protection should ulations (29 CFR 1910. I respirators. Protection gainst exposure to any d. Use a positive press any potential for unco unknown, or any othe ying respirators may n	hits. Where life worn. 134) and n provided sure air ntrolled r
Ha	nd protection	adequate pro	lection.		
	Material	: Chemical-res	istant gloves		
Ey	Remarks e protection	If the work en mists or aeros Wear a faces	plasses with sid vironment or ac sols, wear the a hield or other fu	le shields or goggles. ctivity involves dusty co appropriate goggles. ull face protection if the the face with dusts, m	ere is a
Ski	in and body protection	: Work uniform Additional boo task being pe disposable su	rformed (e.g., s lits) to avoid ex ate degowning	coat. Iould be used based up sleevelets, apron, gaur posed skin surfaces. techniques to remove	ntlets,
Hy	giene measures	: If exposure to eye flushing s working place When using d Wash contam	o chemical is lik systems and sa e. lo not eat, drink inated clothing	ely during typical use, fety showers close to t or smoke. before re-use. facility should include r	he

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engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Appearance : powder Color : dark red Odor Threshold : No data available pH : No data available Initial boiling point and boiling range : No data available Evaporation rate : No data available Evaporation rate : No tata pulcable Evaporation rate : No data available Itammability (iquids) : No data available Upper explosion limi	Version 2.1	Revision Date: 09/30/2023		S Number: 51280-00009	Date of last issue: 04/04/2023 Date of first issue: 12/11/2019
Appearance:powderColor:dark redOdor:No data availableOdor Threshold:No data availablePH:No data availableMetting point/freezing point:No data availableInitial boiling point and boiling range:No data availableFlash point:No data availableEvaporation rate:No data availableFlammability (solid, gas):No tapplicableFlammability (liquids):No data availableLower explosion limit / Upper flammability limit:No data availableVapor pressure:No data availableRelative density:No data availableDensity:No data availableSolubility(res) Water solubility:No data availablePartition coefficient: n- octanol/water:No data availablePartition c				appropriate degovindustrial hygiene	wning and decontamination procedures, monitoring, medical surveillance and the
NumberColor::dark redOdor::No data availableOdor Threshold::No data availablepH::No data availablepHiting point/freezing point::No data availableInitial boiling point and boiling::No data availableFlash point::No data availableEvaporation rate::No data availableFlammability (solid, gas)::No data availableFlammability (solid, gas)::No data availableIdammability liquids)::No data availableIdammability liquids::No data availableIdamitity liquids <td< td=""><td>SECTION</td><td>9. PHYSICAL AND CH</td><td>EMIC</td><td>CAL PROPERTIES</td><td>S</td></td<>	SECTION	9. PHYSICAL AND CH	EMIC	CAL PROPERTIES	S
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pH:Ko data availableMetting point/freezing point:No data availableInitial boiling point and boiling:No data availableInange:No data availableFlash point:No data availableEvaporation rate:No tapplicableFlammability (solid, gas):May form explosive dust-air mixture during processing, handling or other means.Flammability (liquids):No tapplicableLower explosion limit / Lowe:No data availableVapor pressure:No data availableRelative vapor density:No tapplicableRelative density:No data availableDensity:No data availableSolubility(ies):No data availableSolubility(ses):No data availablePartition coefficient: n- Catono/Water:No data availablePartition coefficient: n- Notognition temperature:No data availablePartition coefficient: n- Notognite:No d	Odor		:	No data available	9
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Solubility(ies) · Water solubility : No data available Partition coefficient: n- : No data available octanol/water : No data available Autoignition temperature : No data available	Relat	ive density	:	No data available	9
Water solubility:No data availablePartition coefficient: n- octanol/water:No data availableAutoignition temperature:No data available	Dens	ity	:	No data available	e
octanol/water Autoignition temperature : No data available			:	No data available	e
Autoignition temperature : No data available			:	No data available	9
Decomposition temperature : No data available			:	No data available	e
	Deco	mposition temperature	:	No data available	9



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	osity scosity, kinematic osive properties	: Not applicable : Not explosive	
	zing properties	: The substanc	e or mixture is not classified as oxidizing.
	cular weight	: No data availa	able
Partic	cle size	: No data availa	able

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Stable under May form exp handling or o	l as a reactivity hazard. normal conditions. plosive dust-air mixture during processing, ther means. h strong oxidizing agents.
Conditions to avoid	Heat, flames Avoid dust fo	•
Incompatible materials	Oxidizing age	
Hazardous decomposition products	No hazardou	s decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Toxic if swallowed.

Product:

Acute oral toxicity

: Acute toxicity estimate: 300 mg/kg Method: Calculation method

Components:

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

Acute oral toxicity	:	LD50 (Rabbit): 300 mg/kg
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Skin corrosion/irritation

Not classified based on available information.

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Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

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

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: positive Remarks: Based on data from similar materials
		Test Type: In vitro mammalian cell gene mutation test Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Intraperitoneal injection Result: equivocal Remarks: Based on data from similar materials
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

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





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s on fetal development	Species: Rat Application Ro Result: negativ	ute: Ingestion e	
-single exposure assified based on availa	able information.		
-repeated exposure assified based on availa	able information.		
ated dose toxicity			
onents:			
n-Amidinophenyl)-2-tr chloride:	riazeno]-3-amino-5	ethyl-6-phenylphenanthridinium chlori	ide
es L L ation Route ure time rks	: > 100 mg/kg : Ingestion : 13 Weeks		
ation toxicity			
•	able information.		
	09/30/2023 s on fetal development -single exposure assified based on availa -repeated exposure assified based on availa ated dose toxicity onents: n-Amidinophenyl)-2-tr chloride: es L L ation Route ure time rks	09/30/2023 5351280-00009 s on fetal development : Test Type: Fert Species: Rat Application Rou Result: negative Result: negative assified based on available information. Remarks: Base -single exposure assified based on available information. -repeated exposure assified based on available information. assified based on available information. ated dose toxicity onents: n-Amidinophenyl)-2-triazeno]-3-amino-5-chloride: es : Rat L : > 10 - 100 mg/kg ation Route : Ingestion ure time : 13 Weeks rks : Based on data	09/30/2023 5351280-00009 Date of first issue: 12/11/2019 s on fetal development : Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials -single exposure assified based on available information. -repeated exposure assified base information. -steed dose toxicity onents: n-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6-phenylphenanthridinium chlorid ass : Rat L :> 10 - 100 mg/kg ation Route : Ingestion ure time : 13 Weeks rks : Based on data f

Ecotoxicity

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 effe

: Toxic effects cannot be excluded

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects No data available

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

-		
UNRTDG UN number		UN 2811
Proper shipping name	:	TOXIC SOLID, ORGANIC, N.O.S. (8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6- phenylphenanthridinium chloride hydrochloride)
Class	:	6.1
Packing group	:	III
Labels	:	6.1
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	UN 2811
Proper shipping name	÷	Toxic solid, organic, n.o.s.
	-	(8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6- phenylphenanthridinium chloride hydrochloride)
Class	:	6.1
Packing group	÷	
Labels	:	Toxic
Packing instruction (cargo aircraft)	:	677
Packing instruction (passen- ger aircraft)	:	670
IMDG-Code		
UN number		UN 2811
Proper shipping name	÷	TOXIC SOLID, ORGANIC, N.O.S.
	•	(8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6- phenylphenanthridinium chloride hydrochloride)
Class	:	6.1
Packing group	:	
Labels	:	6.1
EmS Code	:	F-A, S-A
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR	
UN/ID/NA number	: UN 2811
Proper shipping name	: Toxic solids, organic, n.o.s.



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Labels ERG (Marine	ng group s	phenylphen 6.1 III TOXIC 154 no	midinophenyl)-2-triazeno]-3-amino-5-ethyl-6- nanthridinium chloride hydrochloride)

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.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust Acute toxicity (any route of exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

8-[3-(m-Amidinophenyl)-2-triazeno]-3-amino-5-ethyl-6- 6798-24-9 phenylphenanthridinium chloride hydrochloride

The ingredients of this product are reported in the following inventories:			
AICS	:	not determined	
DSL	:	not determined	

IECSC

: not determined

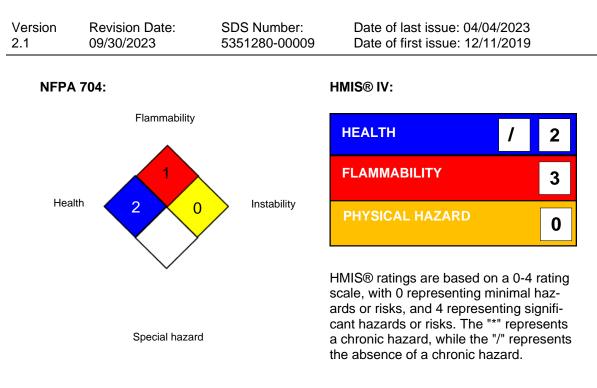
SECTION 16. OTHER INFORMATION

Further information



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Full text of other abbreviations

CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act;



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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Sources of key data used to compile the Material 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/
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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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