

Vers 4.1	ion	Revision Date: 2023/09/29	-	S Number: 787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27	
1. PF	RODUC	T AND COMPANY IDI	ENT	IFICATION		
	Produc	t name	:	Vaniprevir Form	ulation	
	Manufa	acturer or supplier's d	letai	ils		
	Compa	••	:	MSD		
	Address			126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065		
	Telephone		:	908-740-4000		
	Emergency telephone number		r:	1-908-423-6000		
	E-mail	address	:	EHSDATASTEWARD@msd.com		
	Recom	mended use of the cl	nem	ical and restriction	ons on use	
		mended use tions on use	:	Pharmaceutical Not applicable		
2. HA	AZARD	S IDENTIFICATION				
	GHS C	lassification				
		c target organ toxicity - ed exposure (Oral)	:	Category 2 (gall	bladder, Liver)	
	GHS la	bel elements				

Hazard pictograms	:	
Signal word	: V	Varning
Hazard statements		H373 May cause damage to organs (gallbladder, Liver) through prolonged or repeated exposure if swallowed.
Precautionary statements	F F	Prevention: P260 Do not breathe dust. Response: P314 Get medical advice/ attention if you feel unwell. Disposal:
	F	2501 Dispose of contents/ container to an approved waste disposal plant.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
4.1	2023/09/29	25787-00022	Date of first issue: 2014/10/27

Other hazards which do not result in classification

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Vaniprevir	923590-37-8	>= 10 -< 30

4. 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.
	If inhaled In case of skin contact In case of eye contact If swallowed	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur. Wash with water and soap. Get medical attention if symptoms occur. If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
		•	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
	Most important symptoms and effects, both acute and delayed	:	May cause damage to organs through prolonged or repeated exposure if swallowed. 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.
5. F	IREFIGHTING 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 potential dust explosion hazard.

Version



Date of last issue: 2023/04/04

Vaniprevir Formulation

Revision Date:

SDS Number:

4.1	2023/09/29		787-00022	Date of first issue: 2014/10/27
Haza	rdous combustion prod-	:	Exposure to co	mbustion products may be a hazard to health.
ucts		•		
Spec ods	ific extinguishing meth-	:	cumstances ar Use water spra	ing measures that are appropriate to local cir- id the surrounding environment. in to cool unopened containers. naged containers from fire area if it is safe to do
	ial protective equipment efighters	:	In the event of	fire, wear self-contained breathing apparatus. protective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe ha	protective equipment. ndling advice (see section 7) and personal pro- ent recommendations (see section 8).
Envir	onmental precautions	:	Prevent further Retain and disp	o the environment. I leakage or spillage if safe to do so. Dose of contaminated wash water. Des should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	tainer for dispo Avoid dispersa with compress Dust deposits s es, as these m leased into the Local or nation posal of this m employed in th mine which reg Sections 13 an	l of dust in the air (i.e., clearing dust surfaces
7. HANDL	ING AND STORAGE			
Tech	nical measures	:	causing an exp Provide adequ	y may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding r inert atmospheres.
	l/Total ventilation e on safe handling	:	Use only with a Do not breathe Do not swallow Avoid contact w Avoid prolonge	adequate ventilation. dust.

Handle in accordance with good industrial hygiene and safety



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
4.1	2023/09/29	25787-00022	Date of first issue: 2014/10/27
	tions for safe storage als to avoid	sessment Minimize dust gr Keep container Keep away from Take precaution Take care to pre environment. Keep in properly Store in accorda	on the results of the workplace exposure as- eneration and accumulation. closed when not in use. heat and sources of ignition. ary measures against static discharges. event spills, waste and minimize release to the vale labelled containers. ance with the particular national regulations. h the following product types: agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Vaniprevir	923590-37-8	TWA	300 µg/m3	Internal			
Engineering measures :	Minimize work Apply measur Ensure that d dust collectors signed in a ma	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).					
Personal protective equipmer	it						
Respiratory protection : Filter type : Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type						
Material :	Chemical-resi	stant gloves					
Remarks : Eye protection :	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. Wear the following personal protective equipment: Safety goggles			s sub- time is not for special ce to with the			



/ersion .1	Revision Date: 2023/09/29		S Number: 787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
	and body protection one measures	:	If exposure to o eye flushing sy ing place. When using do	washed after contact. chemical is likely during typical use, provide stems and safety showers close to the work- o not eat, drink or smoke. nated clothing before re-use.
. PHYSIC	CAL AND CHEMICAL PI	ROF	ERTIES	
Appe	arance	:	powder	
Colou	ır	:	tan	
Odou	r	:	odourless	
Odou	r Threshold	:	No data availa	ble
рН		:	No data availa	ble
Meltir	ng point/freezing point	:	No data availa	ble
Initial range	boiling point and boiling	:	No data availa	ble
Flash	point	:	No data availa	ble
Evapo	oration rate	:	No data availa	ble
Flamr	nability (solid, gas)	:	May form expl dling or other	osive dust-air mixture during processing, han means.
Flamr	mability (liquids)	:	No data availa	ble
	r explosion limit / Upper nability limit	:	No data availa	ble
	r explosion limit / Lower nability limit	:	No data availa	ble
Vapo	ur pressure	:	No data availa	ble
Relati	ive vapour density	:	No data availa	ble
Densi	ity	:	1 g/cm ³	
	ility(ies) ater solubility	:	No data availa	ble
	ion coefficient: n-	:	No data availa	ble
	ol/water ignition temperature	:	No data availa	ble
Deco	mposition temperature	:	No data availa	ıble



Version 4.1	Revision Date: 2023/09/29	SDS Number: 25787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
\ <i>\</i> !	-14		
Visco: Vis	scosity, dynamic	: No data ava	ilable
Vis	scosity, kinematic	: No data ava	ilable
Explo	sive properties	: Not explosiv	/e
Oxidiz	ring properties	: The substar	nce or mixture is not classified as oxidizing.
Molec	ular weight	: No data ava	ilable
Partic	le size	: No data ava	ilable
0. STABI	LITY AND REACTIVITY	,	
	ivity ical stability pility of hazardous reac-	: Stable unde : May form ex dling or othe	ed as a reactivity hazard. er normal conditions. kplosive dust-air mixture during processing, han er means. rith strong oxidizing agents.
Incom	tions to avoid patible materials dous decomposition cts	Avoid dust f : Oxidizing ag	
1. TOXIC	OLOGICAL INFORMAT	ION	
Inform expos	nation on likely routes of ure	: Inhalation Skin contact Ingestion Eye contact	
	toxicity		
	assified based on availa conents:	ble information.	
Vanip			
-	oral toxicity	: LD50 (Rat): Remarks: No icity tests.	> 750 mg/kg o adverse effect has been observed in acute tox
		LD0 (Dog): > Remarks: No icity tests.	• 300 mg/kg o adverse effect has been observed in acute tox
		LD50 (Mous	e): > 2,000 mg/kg
		6 /	14



Vaniprevir Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
4.1	2023/09/29	25787-00022	Date of first issue: 2014/10/27

Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Not classified based on available information.

Components:

Vaniprevir:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Vaniprevir:

Species	:	Bovine cornea
Result	:	Mild eye irritation
Method	:	Bovine cornea (BCOP)

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Vaniprevir:

Test Type	:	Local lymph node assay (LLNA)
Species	:	Mouse
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Vaniprevir:	
Genotoxicity in vitro	: Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative
	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Alkaline elution assay Test system: rat hepatocytes Result: negative



/ersion 4.1	Revision Date: 2023/09/29	SDS Number: 25787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
Genc	toxicity in vivo	: Test Type: Mid Species: Mous Application Ro Result: negati	oute: Oral
	i nogenicity lassified based on avai	lable information.	
Com	ponents:		
Vanij	orevir:		
	ies cation Route ty duration	: Rat, male and : Oral : 104 Weeks : >= 120 mg/kg	
Resu	lt	: negative	body weight
	ies cation Route ty duration	: Mouse : Oral : 6 Months : >= 300 mg/kg : 75 mg/kg body	
Resu Targe	lt et Organs	: negative : gallbladder	y weight
Not c	oductive toxicity lassified based on avai ponents:	lable information.	
Vanij	orevir:		
Effec	ts on fertility	Species: Rat, Application Ro General Toxic	rtility/early embryonic development male and female bute: Oral sity - Parent: NOAEL: >= 250 mg/kg body weigh ects on fertility
Effec ment	ts on foetal develop-	Developmenta	female bute: Oral bity Maternal: NOAEL: 120 mg/kg body weight al Toxicity: LOAEC F1: 180 mg/kg body weight o specific developmental abnormalities
			pit, female



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
4.1	2023/09/29	25787-00022	Date of first issue: 2014/10/27

Symptoms: No specific developmental abnormalities Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (gallbladder, Liver) through prolonged or repeated exposure if swallowed.

Components:

Vaniprevir:

Exposure routes:Target Organs:Assessment:	Ingestion gallbladder, Liver May cause damage to organs through prolonged or repeated
	exposure.

Repeated dose toxicity

Components:

Vaniprevir:

Species NOAEL LOAEL Application Route Exposure time Target Organs	 Rat 120 mg/kg 360 mg/kg Oral 6 Months Liver
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Dog 15 mg/kg 30 mg/kg Oral 9 Months Liver, gallbladder Gastrointestinal disturbance
Species NOAEL LOAEL Application Route Exposure time Target Organs	 Mouse 150 mg/kg 300 mg/kg Oral 90 d Liver, Kidney, Gastrointestinal tract, Heart, gallbladder, Stomach

Aspiration toxicity

Not classified based on available information.



ersion .1	Revision Date: 2023/09/29		9S Number: 787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
Fyner	rience with human e	YDOSI	Iro	
-	oonents:	nposu		
Vanip				
Ingest		:	Symptoms: sto ache	mach discomfort, Diarrhoea, Nausea, Head-
2. ECOLO	OGICAL INFORMATI	ON		
Ecoto	oxicity			
Comp	oonents:			
Vanip	orevir:			
	ty to daphnia and oth ic invertebrates	er :	Exposure time: Method: OECD	a magna (Water flea)): > 4 mg/l 48 h 9 Test Guideline 202 oxicity at the limit of solubility
			Exposure time: Method: US-EF	imysis): > 4 mg/l 96 h PA OPPTS 850.1035 oxicity at the limit of solubility
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: Method: OECD	kirchneriella subcapitata (green algae)): > 4 72 h 9 Test Guideline 201 oxicity at the limit of solubility
			Exposure time: Method: OECD	okirchneriella subcapitata (green algae)): 4 mg 72 h 9 Test Guideline 201 oxicity at the limit of solubility
Toxici	ty to microorganisms	:	EC50: > 1,000 Exposure time: Test Type: Res Method: OECD	
Persis	stence and degradal	oility		
Comp	oonents:			
Vanip		:	Result: not rapi	idly degradable



ersion 1	Revision Date: 2023/09/29		98 Number: 787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
			Method: OECD	Test Guideline 314
Bioac	cumulative potential			
Comp	oonents:			
	orevir: on coefficient: n- ol/water	:	log Pow: 4.12	
	ity in soil ta available			
•	adverse effects ta available			
B. DISPO	SAL CONSIDERATION	IS		
Dieno	osal methods			
-	e from residues	:	Do not dispose o	of waste into sewer.
				cordance with local regulations.
	minated packaging	:	Empty container dling site for rec	cordance with local regulations. is should be taken to an approved waste han ycling or disposal. specified: Dispose of as unused product.
Conta	minated packaging	:	Empty container dling site for rec	s should be taken to an approved waste han ycling or disposal.
Conta	SPORT INFORMATION	:	Empty container dling site for rec	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern	SPORT INFORMATION	:	Empty container dling site for rec	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UNRT UN nu	SPORT INFORMATION national Regulations DG umber	:	Empty container dling site for rec If not otherwise	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UNRT UN nu Prope	SPORT INFORMATION national Regulations	:	Empty container dling site for rec If not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UNRT UN nu Prope Class	SPORT INFORMATION national Regulations TDG umber er shipping name	:	Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN nu Prope Class Subsic Packin	SPORT INFORMATION national Regulations DG umber or shipping name diary risk ng group	:	Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN RU Prope Class Subsid	SPORT INFORMATION national Regulations DG umber or shipping name diary risk ng group	:	Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN nu Prope Class Subsid Packin Labels IATA-	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR		Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN nu Prope Class Subsid Packin Labels IATA- UN/ID	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR No.		Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN nu Prope Class Subsid Packin Labels IATA- UN/ID Prope	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR 0 No. or shipping name		Empty container dling site for rec lf not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta I. TRANS Intern UN nu Prope Class Subsic Packin Labels IATA- UN/ID Prope Class	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR 0 No. or shipping name		Empty container dling site for rec If not otherwise Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels IATA- UN/ID Prope Class Subsid Prope Class Subsid Prope	SPORT INFORMATION national Regulations TDG umber er shipping name diary risk ng group s DGR 0 No. er shipping name diary risk ng group		Empty container dling site for rec lf not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels IATA- UN/ID Prope Class Subsid Packin Labels Subsid Packin Labels	SPORT INFORMATION national Regulations TDG umber er shipping name diary risk ng group s DGR No. er shipping name diary risk ng group s		Empty container dling site for rec lf not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels UN/ID Prope Class Subsid Packin Labels Packin Labels Packin Labels	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR No. or shipping name diary risk ng group s ng instruction (cargo ft)		Empty container dling site for rec If not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels UN/ID Prope Class Subsid Packin Labels Packin Labels Packin Labels	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR 0 No. or shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen-		Empty container dling site for rec lf not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels IATA- UN/ID Prope Class Subsid Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR D No. or shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) -Code		Empty container dling site for rec If not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.
Conta Intern UNRT UN nu Prope Class Subsid Packin Labels IATA- UN/ID Prope Class Subsid Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Packin Labels Dackin Labels Note Packin Labels Dackin Dackin	SPORT INFORMATION national Regulations TDG umber or shipping name diary risk ng group s DGR D No. or shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) -Code		Empty container dling site for rec If not otherwise Not applicable Not applicable	s should be taken to an approved waste han ycling or disposal.



Vaniprevir Formulation

	sue: 2023/04/04 sue: 2014/10/27
--	------------------------------------

Subsidiary risk	: 1	Not applicable
Packing group	: 1	Not applicable
Labels	: 1	Not applicable
EmS Code	1 :	Not applicable
Marine pollutant	1 :	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION



Versio 4.1	on Revision Date: 2023/09/29		DS Number: 5787-00022	Date of last issue: 2023/04/04 Date of first issue: 2014/10/27
R	Revision Date	:	2023/09/29	
Further information				
C	Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SE eChem Portal search results and European Chen cy, http://echa.europa.eu/		arch results and European Chemicals Agen-	
D	Date format	:	yyyy/mm/dd	

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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.



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
4.1	2023/09/29	25787-00022	Date of first issue: 2014/10/27

ID / EN