

Version 2.0	Revision Date: 04.04.2023		S Number: 22-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014	
1. PRODU	CT AND COMPANY IDE	ENT	IFICATION		
Produc	ct name	:	Sitagliptin / M	etformin Formulation	
	facturer or supplier's d	eta			
Compa	any	:	MSD		
Addres	SS	:	50 Tuas West Drive Singapore - Singapore 638408		
Teleph	none	:	+1-908-740-4	000	
Emerg	jency telephone number	:	65 6697 2111	(24/7/365)	
E-mail	address	:	EHSDATAST	EWARD@msd.com	
Recor	nmended use of the ch	nem	ical and restri	ctions on use	
	nmended use	:			
Restric	ctions on use	:	Not applicable	e	
2. HAZARI	OS IDENTIFICATION				
	Classification toxicity (Oral)	:	Category 4		
	abel elements		•		
Tazan	d pictograms	•			
Signal	word	:	Warning		
Hazar	d statements	:	H302 Harmfu	l if swallowed.	
Preca	utionary statements	:	P270 Do not Response: P301 + P312	kin thoroughly after handling. eat, drink or smoke when using this product. + P330 IF SWALLOWED: Call a POISON ctor if you feel unwell. Rinse mouth.	
			Disposal: P501 Dispose disposal plan	e of contents/ container to an approved waste t.	



Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2022
2.0	04.04.2023	27122-00022	Date of first issue: 31.10.2014

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)
metformin hydrochloride	1115-70-4	>= 70 -< 90
Sitagliptin	654671-77-9	>= 1 -< 10
Cellulose	9004-34-6	>= 1 -< 10
Titanium dioxide	13463-67-7	>= 0.1 -< 1

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	:	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. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. Harmful if swallowed.
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).
Notes to physician	:	Treat symptomatically and supportively.
5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
media 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: 01.10.2022

Sitagliptin / Metformin Formulation

SDS Number:

Revision Date:

2.0	04.04.2023		122-00022	Date of first issue: 31.10.2014
			Exposure to comb	pustion products may be a hazard to health.
Hazard ucts	lous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
Specifi ods	c extinguishing meth-	:	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 d so.	
Specia for firef	l protective equipment ighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCIDE	NTAL RELEASE MEA	SUF	RES	
tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	ls and materials for ment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces
7. HANDLIN	NG AND STORAGE			
Local/T	cal measures otal ventilation on safe handling	:	causing an explose Provide adequate and bonding, or in Use only with ade Do not breathe du Do not swallow. Avoid contact with Avoid prolonged of Wash skin thoroug	precautions, such as electrical grounding ert atmospheres. quate ventilation. st.



Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2022
2.0	04.04.2023	27122-00022	Date of first issue: 31.10.2014
	ions for safe storage als to avoid	sessment Minimize dust ge Keep container c Keep away from Take precautiona Do not eat, drink Take care to prev environment. Keep in properly Store in accordar	In the results of the workplace exposure as- neration and accumulation. losed when not in use. heat and sources of ignition. ary measures against static discharges. or smoke when using this product. yent spills, waste and minimize release to the labelled containers. nce with the particular national regulations. the following product types: agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
•		(Form of	ters / Permissible	
		exposure)	concentration	
metformin hydrochloride	1115-70-4	TWA	1 mg/m3 (OEB 1)	Internal
Sitagliptin	654671-77-9	TWA	0.5 mg/m3 (OEB	Internal
Callulada	0004.24.0		2)	
Cellulose	9004-34-6	PEL (long term)	10 mg/m3	SG OEL
		TWA	10 mg/m3	ACGIH
Titanium dioxide	13463-67-7	PEL (long term)	10 mg/m3	SG OEL
		TWA (Res- pirable par-	2.5 mg/m3 (Titanium dioxide)	ACGIH
		ticulate mat-		
		ter)		

This substance(s) is not bioavailable and therefore does not contribute to a dust inhalation hazard.

Titanium dioxide

Engineering measures :	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.			
Personal protective equipment				
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Filter type : Hand protection	Particulates type			
Material :	Chemical-resistant gloves			
Eye protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,			



Version	Revision Date:	SDS Number:	Date of last issue: 01.10.2022
2.0	04.04.2023	27122-00022	Date of first issue: 31.10.2014
	nd body protection ne measures	 Wear a faceshiel potential for direct aerosols. Work uniform or If exposure to ch eye flushing systing place. When using do n Wash contamina The effective ope engineering cont appropriate dego 	emical is likely during typical use, provide ems and safety showers close to the work- not eat, drink or smoke. ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available

SAFETY DATA SHEET



Version 2.0	Revision Date: 04.04.2023		S Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014	
II					
	oility(ies) /ater solubility	:	No data available	9	
	tion coefficient: n- nol/water	:	Not applicable		
	-ignition temperature	:	No data available)	
Decc	mposition temperature	:	No data available)	
Visco Vi	osity iscosity, kinematic	:	Not applicable		
Explo	osive properties	:	Not explosive		
Oxidi	zing properties	:	The substance of	r mixture is not classified as oxidizing.	
Mole	cular weight	:	No data available)	
Parti	cle size	:	No data available)	
10. STAB		(
	nical stability ibility of hazardous reac-	:	Stable under nor May form explosi dling or other me	ve dust-air mixture during processing, han-	
Conc	litions to avoid	:	Heat, flames and		
	npatible materials Irdous decomposition ucts	:	Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.		
11. TOXIC	COLOGICAL INFORMA	ΓΙΟΝ	l		
Infori expo	mation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact		
	e toxicity nful if swallowed.				
Prod Acute	l <u>uct:</u> e oral toxicity	:	Acute toxicity estimate: 1,380 mg/kg Method: Calculation method		
Com	ponents:				
metf	ormin hydrochloride:				
Acute	e oral toxicity	:	LD50 (Rat): 1,000	mg/kg	
			6 / 19		



Version 2.0	Revision Date: 04.04.2023	SDS Number: 27122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
			1.1450 - 2.500 mg/kg
): 1,450 - 3,500 mg/kg
		LD50 (Monke	y): 463 mg/kg
		LD50 (Rabbit): 350 mg/kg
		LD50 (Guinea	a pig): 500 mg/kg
Sitag	liptin:		
Acute	e oral toxicity	: LD50 (Rat): >	- 3,000 mg/kg
		LD50 (Mouse): 3,000 mg/kg
	llose:		
Acute	e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): > Exposure time	
			ere: dust/mist
Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg
Titan	ium dioxide:		
Acute	e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	e inhalation toxicity	: LC50 (Rat): > Exposure time	
		Test atmosph	pere: dust/mist The substance or mixture has no acute inhala-
Not c	corrosion/irritation lassified based on ava	ilable information.	
	<u>ponents:</u> ormin hydroebloridor		
Spec	ormin hydrochloride: ies	: Rabbit	
Resu		: Mild skin irrita	ation
Sitag	liptin:		
Spec		: Rabbit	
Meth Resu		: Draize Test : No skin irritati	ion
Titan	ium dioxide:		
Spec	ies	: Rabbit	
Resu	llt	: No skin irritati	ion

SAFETY DATA SHEET



ersion .0	Revision Date: 04.04.2023		OS Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
	ous eye damage/eye i			
Not c	lassified based on ava	ailable	information.	
Com	ponents:			
metfo	ormin hydrochloride:	:		
Spec		:	Rabbit	
Resu	lt	:	Mild eye irritation	
Sitag	liptin:			
Spec	ies	:	Rabbit	
Resu		:	Irritating to eyes.	
Meth	od	:	Draize Test	
Titan	ium dioxide:			
Spec	ies	:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	piratory or skin sensi	tisatio	on	
-	sensitisation			
Not c	lassified based on ava	ailable	information.	
-	iratory sensitisation lassified based on ava		information	
_	ponents:			
Sitag	liptin:			
Test		:	Local lymph node	e assay (LLNA)
Spec		:	Mouse	
Meth		:	OECD Test Guid	
Resu	lt	:	Not a skin sensiti	zer.
Titan	ium dioxide:			
Test	Туре	:	Local lymph node	e assay (LLNA)
Expo	sure routes	:	Skin contact	
Spec		:	Mouse	
Resu	It	:	negative	
Germ	n cell mutagenicity			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
	ormin hydrochloride:			
Geno	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitre	o assav
				use lymphoma cells
			Result: negative	
11				
			8 / 19	



Version 2.0	Revision Date: 04.04.2023	SDS Number: 27122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
			nromosomal aberration Human lymphocytes ive
Geno	toxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	oute: Oral
Sitad	liptin:		
	toxicity in vitro	: Test Type: Ar Result: negat	
			nromosome aberration test in vitro Chinese hamster ovary cells ive
		thesis in man	NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) rat hepatocytes ive
Geno	toxicity in vivo	: Test Type: M Species: Mou Application R Result: negat	oute: Oral
II Cellu	lose:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
		Test Type: In Result: negat	vitro mammalian cell gene mutation test ive
Geno	otoxicity in vivo	cytogenetic a Species: Mou	ise oute: Ingestion
II Titan	ium dioxide:		
	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
Geno	toxicity in vivo	: Test Type: In Species: Mou Result: negat	

Carcinogenicity

Not classified based on available information.



Version 2.0	Revision Date: 04.04.2023	SDS Number: 27122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
Com	ponents:		
metfo	ormin hydrochloride:		
Speci	-	: Mouse	
	sure time	: 91 weeks	
Dose		: 1500 mg/kg b	oody weight
Resu	lt	: negative	
Speci	ies	: Rat, male	
	cation Route	: Oral	
	sure time	: 104 weeks	
Dose		: 900 mg/kg bo	ody weight
Resu	lt	: negative	
Speci		: Rat, female	
Applic	cation Route	: Oral	
	sure time	: 104 weeks	
LOAE		: 900 mg/kg bo	ody weight
Resu		: negative	
	et Organs	: Uterus (inclue	
Rema	arks	: The mechanis mans.	sm or mode of action may not be relevant in hu-
	liptin:		
Speci		: Mouse	
	cation Route	: Oral	
	sure time	: 2 Years	
Resu	IT	: negative	
Speci		: Rat	
	cation Route	: oral (drinking	water)
	sure time	: 2 Years	
Resu		: positive	
Targe Rema	et Organs	: Liver	visity shaanyad in tasting
Rema	arks	. Significant to	xicity observed in testing
Carcii ment	nogenicity - Assess-	: Weight of evi cinogen	dence does not support classification as a car-
Cellu	lose:		
Speci		: Rat	
	cation Route	: Ingestion	
	sure time	: 72 weeks	
Resu	lt	: negative	
Titan	ium dioxide:		
Speci		: Rat	
	cation Route	: inhalation (du	ist/mist/fume)
	sure time	: 2 Years	
Metho		: OECD Test G	Guideline 453
Resu		: positive	
Rema	arks		sm or mode of action may not be relevant in hu-
11		mans.	



Version 2.0	Revision Date: 04.04.2023	-	9S Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
) is not bioavailable and therefore does not ist inhalation hazard.
Carcir ment	nogenicity - Assess-	:	Limited evidence animals.	of carcinogenicity in inhalation studies with
-	oductive toxicity lassified based on avai	ilable	information.	
Comp	oonents:			
metfo	ormin hydrochloride:			
Effect	s on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	e: Oral 600 mg/kg body weight
Effect ment	s on foetal develop-	:	Test Type: Devel Species: Rat Application Route Developmental T Result: No terato	e: Oral oxicity: NOAEL: 600 mg/kg body weight
			Species: Rabbit Application Route	kicity: NOAEL: 140 mg/kg body weight
Sitaq	liptin:			
	s on fertility	:	Species: Rat Application Route Fertility: NOAEL	ty/early embryonic development e: Oral Parent: 1,000 mg/kg body weight sting did not show any effects on fertility.
Effect ment	s on foetal develop-	:	Species: Rat Application Route Teratogenicity: Lo Result: Embryoto	yo-foetal development e: Oral OAEL: 250 mg/kg body weight oxic effects and adverse effects on the off- cted., No teratogenic effects
			Species: Rabbit	yo-foetal development OAEL: 125 mg/kg body weight genic effects
Cellu	lose:			
Effect	s on fertility	:	Test Type: One-g Species: Rat Application Route	generation reproduction toxicity study e: Ingestion



Version 2.0	Revision Date: 04.04.2023		OS Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
			Result: negative	
Effec ment	ts on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development e: Ingestion
	- single exposure lassified based on availa	able	information.	
	F - repeated exposure lassified based on available	able	information.	
Repe	ated dose toxicity			
Com	ponents:			
	ormin hydrochloride:			
	EL cation Route sure time	:	Rat 125 mg/kg Oral 1 year No significant adv	verse effects were reported
	EL cation Route sure time	:	Rabbit 100 mg/kg Oral 1 Year No significant adv	verse effects were reported
	EL cation Route sure time	:	Dog 50 mg/kg Subcutaneous 2 year No significant adv	verse effects were reported
Speci NOAI LOAE Applie Expos	ΞL		Mouse 500 mg/kg 1,000 mg/kg Oral > 2 yr Kidney	
Expo	ΞL		Rat 500 mg/kg 1,000 mg/kg Oral 14 Weeks Liver, Kidney, Hea	art, Teeth
Spec NOAI LOAE	ΞL	:	Dog 10 mg/kg 50 mg/kg	



Version 2.0	Revision Date: 04.04.2023	SDS Number: 27122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
Expos		 Oral 53 Weeks Central nervo Loss of balan The mechanis mans. 	
Expos	L L cation Route sure time t Organs toms	: Loss of balan	cle, Central nervous system ce sm or mode of action may not be relevant in hu-
	L ation Route sure time	: Monkey : 100 mg/kg : Oral : 14 Weeks : No significant	adverse effects were reported
	es	: Rat : >= 9,000 mg/ : Ingestion : 90 Days	kg
Specie NOAE Applic		: Rat : 24,000 mg/kg : Ingestion : 28 Days	
		: Rat : 10 mg/m3 : inhalation (du : 2 yr	st/mist/fume)
Not cla	ation toxicity assified based on availa ience with human exp		
<u>Comp</u>	oonents:		
Skin c	rmin hydrochloride: contact ontact cion	: Symptoms: D	y irritate skin. y irritate eyes. iarrhoea, Nausea, Vomiting, Gastrointestinal itulence, asthenia, Fatigue, Headache

Sitagliptin:



Version 2.0	Revision Date: 04.04.2023	-	0S Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014	
Inhalat Ingesti		:	 Symptoms: upper respiratory tract infection, pharyngi Headache Symptoms: upper respiratory tract infection, nasopha Headache, Nausea, Abdominal pain, Diarrhoea 		
12. ECOLC	GICAL INFORMATION	N			
Ecoto	xicity				
Comp	onents:				
metfo	rmin hydrochloride:				
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To		
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te		
Toxicit icity)	y to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te		
	y to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te		
Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD To	h ration inhibition	
Sitagli	iptin:				
	y to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD Te		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 96 Method: OECD To		
			NOEC (Pseudokin mg/l Exposure time: 96 Method: OECD To		



Version 2.0	Revision Date: 04.04.2023		9S Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 33 Method: OECD Te	
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxici	ty to microorganisms	:	EC50: > 150 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			NOEC: 150 mg/l Exposure time: 3 Test Type: Respir	
Cellul	ose:			
	ty to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l } h on data from similar materials
Titani	um dioxide:			
Toxici	ty to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): > 10,000 mg/l 2 h
Toxici	ty to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h
Persis	stence and degradabili	ity		
Comp	onents:			
	rmin hydrochloride:			
	gradability	:	Result: rapidly de Biodegradation: 5 Exposure time: 2	50 %
Sitagl	iptin:			
Biode	gradability	:	Result: not rapidly Biodegradation: 3 Exposure time: 28 Method: OECD Te	39.7 % 3 d



Version 2.0	Revision Date: 04.04.2023		DS Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
Stabi	lity in water	:	Hydrolysis: 50 % Method: OECD T	(401 d) Test Guideline 111
Cellu Biode	l lose: egradability	:	Result: Readily b	iodegradable.
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	ormin hydrochloride: ion coefficient: n- iol/water	:	log Pow: -2	
Partit	l iptin: ion coefficient: n- ol/water	:	log Pow: -0.03	
Mobi	lity in soil			
Com	ponents:			
Distri	ormin hydrochloride: bution among environ- al compartments	:	log Koc: 4.3 Method: OECD T	est Guideline 106
Distri	l iptin: bution among environ- al compartments	:	log Koc: 4.37	
	r adverse effects ata available			
13. DISPC	SAL CONSIDERATION	NS		
Wast	osal methods e from residues aminated packaging	:	Do not dispose o Empty containers dling site for recy	ordance with local regulations. f waste into sewer. s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION	1		
Interi	national Regulations			
Prope Class Subsi	umber er shipping name s idiary risk ing group	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	



Version 2.0	Revision Date: 04.04.2023	SDS Number: 27122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014
Class Subsi Packi Label Packi aircra	D No. er shipping name diary risk ng group s ng instruction (cargo ft) ng instruction (passen-	 Not applicable 	
IMDG UN nu Prope Class Subsi Packie Labels EmS	- Code umber er shipping name diary risk ng group s	 Not applicable 	
	port in bulk according		POL 73/78 and the IBC Code
-	ial precautions for use	r	
15. REGU	LATORY INFORMATIO	N	
Safety ture	y, health and environm	nental regulations/le	gislation specific for the substance or mix

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazard- ous Substances) Regulations	:	Not applicable
Fire Safety (Petroleum and Flammable Materials) Regulations	:	Not applicable

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

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

16. OTHER INFORMATION



Version 2.0	Revision Date: 04.04.2023		OS Number: 122-00022	Date of last issue: 01.10.2022 Date of first issue: 31.10.2014				
Revision Date		:	04.04.2023					
Further information								
con	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 Agen- cy, http://echa.europa.eu/					
	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.							
Dat	e format	:	dd.mm.yyyy					
Ful	Full text of other abbreviations							
AC0 SG	GIH OEL	:	Singapore. Workp	eshold Limit Values (TLV) blace Safety and Health (General Provisions) t Schedule Permissible Exposure Limits of				

ACGIH / TWA	:	8-hour, time-weighted average
SG OEL / PEL (long term)	:	Permissible Exposure Level (PEL) Long Term

Toxic Substances.

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



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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.

SG / EN