



Cloxacillin / Ampicillin Formulation

Vers 2.4	sion	Revision Date: 2024/09/28		S Number: 343368-00006	Date of last issue: 2023/12/05 Date of first issue: 2022/08/30
1 D	סטוס	T AND COMPANY IDE			
1. Г			_1111		
	Produc	t name	:	Cloxacillin / Amp	icillin Formulation
	Other n	neans of identification	:	Bovaclox Dry Co	w (A004495)
	Manufa	acturer or supplier's d	letai	ls	
	Compa	••	:	MSD	
	Addres	S	:	126 E. Lincoln A Rahway, New Je	venue ersey U.S.A. 07065
	Telepho	one	:	908-740-4000	
	Emerge	ency telephone number	:	1-908-423-6000	
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch	nem	ical and restriction	ons on use
		mended use	:	Veterinary produ	ct
	Restric	tions on use	:	Not applicable	

2. HAZARDS IDENTIFICATION

GHS Classification Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	Prevention:



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		P272 Contamir the workplace. P273 Avoid rel P280 Wear pro	eathing vapours. hated work clothing should not be allowed out of ease to the environment. otective gloves. piratory protection.
		P304 + P340 IF keep comfortat P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	F ON SKIN: Wash with plenty of water. F INHALED: Remove person to fresh air and ble for breathing. F skin irritation or rash occurs: Get medical ad- f experiencing respiratory symptoms: Call a FER/ doctor. Fake off contaminated clothing and wash it before
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 60 -<= 100
cloxacillin	61-72-3	>= 10 -< 30
ampicillin	69-53-4	>= 2.5 -< 10
Hydroxyaluminum distearate	300-92-5	< 10

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	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.



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lf s an de Pr	case of eye contact swallowed ost important symptoms id effects, both acute and elayed otection of first-aiders	: : :	Flush eyes with w Get medical atten If swallowed, DO Get medical atten Rinse mouth thor May cause an alle May cause allergy ties if inhaled. Excessive expose other respiratory of tive airways dysfu First Aid responde and use the recor when the potentia	shoes before reuse. vater as a precaution. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur. oughly with water. ergic skin reaction. y or asthma symptoms or breathing difficul- ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- unction syndrome). ers should pay attention to self-protection, nmended personal protective equipment al for exposure exists (see section 8). cally and supportively.
5. FIRE	FIGHTING MEASURES			
Su	Suitable extinguishing media		Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	nsuitable extinguishing edia	:	None known.	
	becific hazards during fire- hting	:	Exposure to comb	pustion products may be a hazard to health.
Ha uc	azardous combustion prod- ts	:	Carbon oxides Chlorine compour Nitrogen oxides (I Sulphur compoun Sulphur oxides Metal oxides	NOx)
Sr od	becific extinguishing meth- Is	:	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
	pecial protective equipment r firefighters	:		e, wear self-contained breathing apparatus. tective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).



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I	Enviror	nmental precautions	:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
		Is and materials for ment and cleaning up	:	For large spills, pr ment to keep mate be pumped, store Clean up remaining bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.
7. HA		NG AND STORAGE			
I	Local/T	cal measures otal ventilation on safe handling	::::	CONTROLS/PER Use only with ade Do not get on skir Do not breathe va Do not swallow. Avoid contact with Handle in accorda practice, based or sessment Keep container tig Already sensitised to asthma, allergie should consult the tory irritants or set	n or clothing. apours. ance with good industrial hygiene and safety in the results of the workplace exposure as- ghtly closed. d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira-
(Conditi	ons for safe storage	:	Keep in properly I Keep tightly close	abelled containers. d. ce with the particular national regulations.
I	Materia	als to avoid	:		tions on storage with other products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Componente		Value ture	Control normers	Deele
Components	CAS-No.	Value type	Control parame- ters / Permissible	Basis
		(Form of		
) A (hite and all all (notice laws)	0040 47 5	exposure)	concentration	
White mineral oil (petroleum)	8042-47-5	NAB (Mist)	5 mg/m3	ID OEL
		PSD (Mist)	10 mg/m3	ID OEL
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
cloxacillin	61-72-3	TWA	100 µg/m3 (OEB 2)	Internal
	Further inform	nation: RSEN, DS	SEN	
		Wipe limit	100 µg/100 cm2	Internal
ampicillin	69-53-4	TWA	0.6 mg/m3 (OEB 2)	Internal
	Further inform	nation: RSEN	. /	
Hydroxyaluminum distearate	300-92-5	NAB	10 mg/m3	ID OEL
			fied as carcinogenic	
			materials as carcinog	
	mans or anim			
		NAB (Res-	1 mg/m3	ID OEL
		pirable par-	(Aluminium)	
		ticulate mat-	(
		ter)		
	Further inform	nation: Not classi	fied as carcinogenic	to humans. Not
			materials as carcinog	
	mans or anim		0	
		TWA (Inhal-	10 mg/m3	ACGIH
		able particu-	5	
		late matter)		
		TWA (Res-	3 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
		TWA (Res-	1 mg/m3	ACGIH
		pirable par-	(Aluminium)	
		ticulate mat-		
1		ter)	1	

Engineering measures :	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
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 :	Combined particulates and organic vapour type



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Hand protection Material		: Chemical-resista	ant gloves		
Eye protection		: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.			
	and body protection ene measures	eye flushing sys ing place. When using do Contaminated w workplace. Wash contamina The effective op engineering con appropriate deg	nemical is likely during typical use, provide tems and safety showers close to the work- not eat, drink or smoke. York clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
Colour	:	off-white
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	:	No data available
Flash point Evaporation rate	:	No data available Not applicable
	:	
Evaporation rate		Not applicable
Evaporation rate Flammability (solid, gas)	:	Not applicable No data available No data available





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Vapo	ur pressure	:	Not applicable	
Relati	ive vapour density	:	Not applicable	
Relati	ive density	:	No data available	e
Densi	ity	:	No data available	e
	ility(ies) ater solubility	:	No data available	e
	ion coefficient: n-	:	Not applicable	
	ol/water ignition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e
Visco Vis	sity scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	
Ovidi				r mixture is not eleccified as evidining
Oxidiz	zing properties	÷	The substance o	r mixture is not classified as oxidizing.
Molec	cular weight	:	No data available	e
	ele characteristics le size	:	< 30 µm	

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	None known.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.



ersion 4	Revision Date: 2024/09/28		DS Number: 843368-00006	Date of last issue: 2023/12/05 Date of first issue: 2022/08/30		
<u>Com</u>	oonents:					
White	e mineral oil (petroleun	n):				
	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg		
Acute	inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inha tion toxicity			
Acute	e dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal		
cloxa	cillin:					
Acute	e oral toxicity	: LD50 (Rat): 5,000 mg/kg) mg/kg		
			LD50 (Mouse): 5,	,000 mg/kg		
	e toxicity (other routes of nistration)	:	LD50 (Mouse): 1, Application Route			
			LD50 (Mouse): 9 ⁻ Application Route			
			LD50 (Mouse): 1, Application Route			
			LD50 (Rat): 1,660 Application Route			
			LD50 (Rat): 4,200 Application Route			
ampi	cillin:					
-	oral toxicity	:	LD50 (Rat): 10,00	00 mg/kg		
			LD50 (Mouse): 1	5,200 mg/kg		
	e toxicity (other routes of nistration)	:	LD50 (Rat): 6,200 Application Route			
			LD50 (Mouse): 4, Application Route			
Hvdro	oxyaluminum distearat	te:				
	e oral toxicity	:		e): > 2,000 mg/kg est Guideline 423 on data from similar materials		





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Ac	ute inhalation toxicity	:	LC50 (Rat): > 5.1 Exposure time: 4 Test atmosphere: Method: OECD Te	h dust/mist
-	in corrosion/irritation t classified based on availa	able	information.	
<u>Co</u>	mponents:			
Wł	nite mineral oil (petroleur	n):		
	ecies sult	:	Rabbit No skin irritation	
	oxacillin: marks	:	Not classified due	to lack of data.
Ну	droxyaluminum disteara	te:		
Me	ecies ethod marks	:	OECD Test Guide	nan epidermis (RhE) eline 431 m similar materials
Me	ecies ethod marks	:	OECD Test Guide	nan epidermis (RhE) eline 439 m similar materials
Re	sult	:	No skin irritation	
	rious eye damage/eye irr t classified based on availa			
<u>Co</u>	mponents:			
Wh	nite mineral oil (petroleur	n):		
	ecies sult	:	Rabbit No eye irritation	
clo	oxacillin:			
Re	marks	:	Not classified due	to lack of data.
Ηv	droxyaluminum disteara	te:		
Sp	ecies	:	Bovine cornea	
	ethod marks	:	OECD Test Guide Based on data fro	eline 437 m similar materials
-	sult	:	No eye irritation	



ersion 4	Revision Date: 2024/09/28		OS Number: 843368-00006	Date of last issue: 2023/12/05 Date of first issue: 2022/08/30		
Resp	iratory or skin sensi	tisatio	on			
-	sensitisation	_				
-	ause an allergic skin		on.			
-	iratory sensitisation		notoms or breathin	ng difficulties if inhaled.		
-	oonents:	la oyn				
	e mineral oil (petrole	um).				
Test			Buehler Test			
Expos	sure routes	:	Skin contact			
Speci		:	Guinea pig			
Resul	IT	:	negative			
cloxa	cillin:					
Expos	sure routes	:	Dermal			
	ssment	:	Probability or evidence of skin sensitisation in humans			
Resul	lt	:	positive			
Asses	ssment	:		spiratory sensitisation in humans based o		
Resul	lt	:	animal testing : positive			
ampi						
	sure routes	:	Inhalation			
Resul	IT	:	Sensitiser			
Hydro	oxyaluminum distea	rate:				
Test		:	Local lymph noc	le assay (LLNA)		
	sure routes	:	Skin contact			
Speci Metho		:	Mouse OECD Test Gui	deline 429		
Resul			negative			
Rema		:	negative Based on data from similar materials			
Gorm	cell mutagenicity					
	assified based on ava	ailable	information.			
<u>Com</u>	oonents:					
White	e mineral oil (petrole	um):				
Geno	toxicity in vitro	:	Test Type: In vit Result: negative	ro mammalian cell gene mutation test		
Geno	toxicity in vivo	:	cytogenetic assa			
			Species: Mouse	te: Intraperitoneal injection		

Application Route: Intraperitoneal injection



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		Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials	
cloxa	cillin:		
Geno	toxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Information given is based on data obtained fr similar substances. 	rom
Geno	toxicity in vivo	 Test Type: Micronucleus test Species: Mouse Result: negative Remarks: Information given is based on data obtained fr similar substances. 	rom
ampie	cillin:		
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative	
		Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Result: negative	
		Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative	
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative	
Geno	toxicity in vivo	: Test Type: Micronucleus test Species: Rat Application Route: Oral Result: negative	
Hydro	oxyaluminum distea	ate:	
-	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials	
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative	



: Based on data from similar materials n.
n.
n.
S
ified due to lack of data.
g body weight
Leukaemia, breast tumors
/kg body weight
imor(s)
f evidence does not support classification as a ca
n.
e: One-generation reproduction toxicity study
Rat
on Route: Skin contact
on Route: Skin contact egative
on Route: Skin contact egative e: Embryo-foetal development
on Route: Skin contact egative

cloxacillin:



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Effec	ts on fertility	Species: Ra Application Fertility: NC	Multi-generation study at Route: Oral DAEL: 500 mg/kg body weight effects on fertility, No effects on reproduction pa-
Effec ment	ts on foetal develop-	Species: Ra Application Developme	Development abbit Route: Oral ntal Toxicity: NOAEL: 100 mg/kg body weight malformations were observed.
		Species: Ra Application Developme	Development abbit Route: Intramuscular ntal Toxicity: NOAEL: 250 mg/kg body weight effects on foetal development
ampi	cillin:		
-	ts on fertility	: Test Type: Species: G Target Orga	
Effec ment	ts on foetal develop-	Species: Ra Developme	Development at ntal Toxicity: NOAEL: 250 mg/kg body weight effects on foetal development
Hydr	oxyaluminum disteara	ate:	
•	ts on fertility	: Test Type: Species: Ra Application Method: Of Result: neg	Route: Ingestion ECD Test Guideline 416
Effec ment	ts on foetal develop-	Species: Ra Application Method: Of Result: neg	Route: Ingestion ECD Test Guideline 416

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.



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-	eated dose toxicity			
	e mineral oil (petrole	um).		
Spec		umj. :	Rat	
LÒA	EL	:	160 mg/kg	
	ication Route osure time	:	Ingestion 90 Days	
Spec LOA		:	Rat	
-	⊏∟ ication Route	:	>= 1 mg/l inhalation (dust/	mist/fume)
Expo	osure time	:	4 Weeks	
Meth	lod	:	OECD Test Guid	deline 412
	acillin:			
Spec LOA		:	Rat 7,000 mg/kg	
	ication Route	:	Intravenous	
	osure time	:	4 Weeks	
Sym	ptoms	:	Hypoglycemia	
-	icillin:			
Spec LOA		:	Rat	
-	⊏∟ ication Route	:	3,000 mg/kg Oral	
Expo	osure time	:	13 Weeks	
Sym	ptoms	:	Diarrhoea	
Spec LOA		:	Mouse 2,000 mg/kg	
	⊏∟ ication Route	:	2,000 mg/kg Oral	
	osure time	:	13 Weeks	
Sym	ptoms	:	Diarrhoea	
Spec LOA		:	Rat	
	⊏∟ ication Route	:	750 mg/kg Oral	
Expo	osure time	:	2 yr	
	et Organs ptoms	:	Thyroid, forestor Diarrhoea, Saliv	nach ation, decreased activity
Spec		:	Mouse	
LOA Appl	EL ication Route	:	2,000 mg/kg Oral	
	osure time	:	2 yr	
Targ	et Organs	:	forestomach	mention france information -
Sym	ptoms	:	Ulceration, Inflar	nmation, fungal infections



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-	ation toxicity assified based on ava	ailable	information.	
Expe	rience with human e	exposi	ure	
Comp	oonents:			
cloxa	cillin:			
Inhala Skin c	ation contact	:	Remarks: May o Symptoms: Derr Remarks: May in	
Eye c Ingest	ontact tion	:	Remarks: May in Symptoms: May	
ampio	cillin:			
Inhala	ation	:	Symptoms: Asth Remarks: May of ing difficulties if	ause allergy or asthma symptoms or breath
Ingest	tion	:	•	rash, Nausea, Diarrhoea, Vomiting, colitis,

12. ECOLOGICAL INFORMATION

Ecotoxicity						
Components:						
White mineral oil (petroleum):						
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203				
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202				
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201				
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d				
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1,000 mg/l Exposure time: 21 d				
ampicillin: Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): > 1,000 mg/l Exposure time: 96 h				



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				chus mykiss (rainbow trout)): > 100 mg/l
			Exposure time: 9	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): > 100 mg/l ¦8 h
Toxic plants	ity to algae/aquatic s	:	Exposure time: 7	a flos-aquae): 190 μg/l /2 h Γest Guideline 201
			Exposure time: 7	a flos-aquae): 13 μg/l 2 h Γest Guideline 201
			mg/l Exposure time: 7	rchneriella subcapitata (green algae)): > 100 '2 h Fest Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 100 '2 h Fest Guideline 201
M-Fa	ctor (Acute aquatic tox-	:	1	
Toxicity to microorganisms :		EC50: > 1,000 m Exposure time: 3 Test Type: Resp Method: OECD T	5 ĥ	
			NOEC: 9 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
Hydro	oxyaluminum distearat	e:		
	oxicology Assessment nic aquatic toxicity	:	No toxicity at the	limit of solubility
Persi	stence and degradabili	ty		
Com	ponents:			
	e mineral oil (petroleum egradability	ו): :	Result: Not readi Biodegradation: Exposure time: 2	

ampicillin:



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Biodegradability					
		Exposure time:	28 d		
		Method: OECD	Test Guideline 301B		
oxyaluminum disteara	ate:				
gradability	:	,	biodegradable. d on data from similar materials		
		Remarks. Dased			
cumulative potential					
oonents:					
cillin:					
on coefficient: n- ol/water	:	log Pow: 2.44			
cillin:					
on coefficient: n- ol/water	:	log Pow: -2.0 pH: 7			
oxyaluminum disteara	ate:				
on coefficient: n-	:	log Pow: 15.088			
ol/water		Remarks: Calcu	lation		
lity in soil					
ita available					
adverse effects					
ita available					
SAL CONSIDERATIO	NS				
osal methods					
e from residues	:	Do not dispose	of waste into sewer.		
minated packaging		Dispose of in ac	cordance with local regulations.		
umnaleu packaging	•	 Empty containers should be taken to an approved waste h dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 			
SPORT INFORMATIO	N				
national Regulations					
ſDG					
umber	:	Not applicable			
	Dysaluminum disteara gradability cumulative potential Donents: cillin: on coefficient: n-ol/water cillin: on coefficient: n-ol/water cillin: on coefficient: n-ol/water convaluminum disteara on coefficient: n-ol/water convalues dot coefficient: n-ol/water convalues convalues convalues convalues convalues on coefficient convalues convalues convalues convalues convalues convalues on coefficient convalues convalues convalues	Dysaluminum distearate: gradability cumulative potential Donents: cillin: on coefficient: n- cillin: on coefficient: n- col/water concoefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- col/water Dysaluminum distearate: on coefficient: n- con	Biodegradation: Exposure time: Method: OECD oxyaluminum distearate: gradability : Result: Readily Remarks: Based ccumulative potential on coefficient: n- : log Pow: 2.44 ol/water cillin: on coefficient: n- : log Pow: -2.0 pH: 7 oxyaluminum distearate: on coefficient: n- : log Pow: -2.0 ph: 7 ox		



lly hazardous ng name c		Not applicable Not applicable no Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
ction (cargo	:	Not applicable Not applicable Not applicable Not applicable Not applicable		
ction (passen-	:	Not applicable		
<		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable		
-	-		POL 73/78 and the I	BC Code
	r			
	e for product as autions for use e Y INFORMATIO	k : ant : bulk according to e for product as sup autions for user Y INFORMATION	ng name : Not applicable Not applicable Solutions for user Not applicable Not applicable	Ing name : Not applicable : Not applicable k : Not applicable : Not applicable : Not applicable : Not applicable : Not applicable bulk according to Annex II of MARPOL 73/78 and the I e for product as supplied. autions for user

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 Sys-

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

tem of Classification and Labelling of Chemicals.

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



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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

Revision Date	:	2024/09/28			
Further information					
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/			
Date format	:	yyyy/mm/dd			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
ID OEL	:	Indonesia. Occupational Exposure Limits			
ACGIH / TWA ID OEL / NAB ID OEL / PSD	:	8-hour, time-weighted average Long term exposure limit Short term exposure limit			

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



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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.

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