



Versior 2.1	n Revision Date: 2023/09/30		S Number: 792-00018	Date of last issue: 2023/04/04 Date of first issue: 2016/09/30
1. PRO	DUCT AND COMPANY IDE	ENT	IFICATION	
Pr	Product name		Trenbolone Acet	ate Formulation
Ma	anufacturer or supplier's d	etai	ls	
Co	ompany	:	MSD	
Ac	ldress	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
Te	lephone	:	908-740-4000	
Er	nergency telephone number	· :	1-908-423-6000	
E-	mail address	:	EHSDATASTEW	/ARD@msd.com
Re	ecommended use of the ch	nemi	ical and restriction	ons on use
	ecommended use estrictions on use	:	Veterinary produ Not applicable	ct

2. HAZARDS IDENTIFICATION

GHS Classification		Ostanov O
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Endocrine system, Blood)
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	 H351 Suspected of causing cancer. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H372 Causes damage to organs (Endocrine system, Blood) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.





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Precautionary statements

Prevention:

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P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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)
17β-hydroxyestra-4,9,11-trien-3-one 17-acetate	10161-34-9	>= 60 -<= 100
Talc	14807-96-6	< 10
Magnesium stearate	557-04-0	< 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. 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.



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In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed		:	Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. If in eyes, rinse well with water. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure if swallowed.			
	rotection of first-aiders otes to physician		 exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin. 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). Treat symptomatically and supportively. 			
5. FIR	EFIGHTING MEASURES					
	uitable extinguishing media nsuitable extinguishing	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical None known.			
m Sj	edia pecific hazards during fire- ghting	:	Avoid generating concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.		
	azardous combustion prod- cts	:	Carbon oxides Metal oxides			
	pecific extinguishing meth- ds	:	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	:	Evacuate area. In the event of fire	e, wear self-contained breathing apparatus. ective equipment.		
6. ACC	CIDENTAL RELEASE MEAS	SUR	ES			
tiv	ersonal precautions, protec- ve equipment and emer- ency procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).		

Environmental precautions : Avoid release to the environment.



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	fethods and materials for ontainment and cleaning up	Retain and dis Local authoritic cannot be con : Sweep up or v tainer for disp Avoid disperse with comprese	vacuum up spillage and collect in suitable con- osal. al of dust in the air (i.e., clearing dust surfaces
		es, as these n leased into the Local or nation posal of this n employed in th mine which re Sections 13 a	analy form an explosive mixture if they are re- e atmosphere in sufficient concentration. that regulations may apply to releases and dis- naterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. and 15 of this SDS provide information regarding r national requirements.
7. HA	NDLING AND STORAGE		
Т	echnical measures	causing an ex Provide adequ	ty may accumulate and ignite suspended dust plosion. Jate precautions, such as electrical grounding or inert atmospheres.
	ocal/Total ventilation	 Use only with Do not breath Do not swallor Avoid contact Avoid prolong Wash skin the Handle in acc practice, base sessment Minimize dust Keep containe Keep away free Take precauti Do not eat, dr 	adequate ventilation. e dust. w.
C	Conditions for safe storage	: Keep in prope Store locked u	1
Ν	laterials to avoid		dance with the particular national regulations. <i>v</i> ith the following product types: ng agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters



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Components	CAS-No.	Value type	Control parame-	Basis
Componente	0/10/10	(Form of	ters / Permissible	Baolo
		exposure)	concentration	
17β-hydroxyestra-4,9,11-trien-	10161-34-9	TWA	0.2 µg/m3 (OEB	Internal
3-one 17-acetate	10101-34-3		5)	internal
		Wipe limit	2 µg/100 cm ²	Internal
Tala	44007.00.0			
Talc	14807-96-6	NAB (Res-	2 mg/m3	ID OEL
		pirable par-		
		ticulate mat-		
		ter)		
			fied as carcinogenic t	
			naterials as carcinog	enic to hu-
	mans or anima	als		
		TWA (Res-	2 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
Magnesium stearate	557-04-0	NÁB	10 mg/m3	ID OEL
	Further inform	ation: Not classif	ied as carcinogenic t	o humans. Not
	enough data to	o classify these r	naterials as carcinog	enic to hu-
	mans or anima		0	
		TWA (Inhal-	10 mg/m3	ACGIH
		able particu-	J	
		late matter)		
		TWA (Res-	3 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		

Engineering measures	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to pre- vent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment tech- nology designed to prevent leakage of compounds into the workplace.
Personal protective equipmer	1
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



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Remarks Eye protection		 Consider double gloving. 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. 				
Skin and body protection		Additional body task being perf posable suits) t	or laboratory coat. y garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. e degowning techniques to remove potentially clothing.			
Hygiene measures		: If exposure to or eye flushing sy ing place. When using do Wash contamin The effective or engineering co appropriate deg industrial hygie	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work-			

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	:	No data available
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

SAFETY DATA SHEET



Trenbolone Acetate Formulation

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	er explosion limit / Lower mability limit	:	No data available	9
Vap	Vapour pressure		No data available	9
Rela	ative vapour density	:	No data available	9
Rela	Relative density		No data available	9
Den	Density		No data available	9
	ıbility(ies) Vater solubility	:	No data available	9
	ition coefficient: n- nol/water	:	No data available	9
	o-ignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
	osity /iscosity, kinematic	:	No data available	9
Exp	losive properties	:	Not explosive	
Oxic	lizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9
Part	icle size	:	No data available	9

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	::	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion



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		F	
		Eye conta	act
	e toxicity		
	lassified based on av	ailable informatio	n.
<u>Com</u>	oonents:		
17β-ŀ	ydroxyestra-4,9,11-	trien-3-one 17-a	cetate:
Acute	oral toxicity	: LD50 (Ra	at): > 5,000 mg/kg
		LD50 (Mo	ouse): 2,700 mg/kg
Talc:			
Acute	oral toxicity		ıt): > 5,000 mg/kg : Based on data from similar materials
Magn	esium stearate:		
-	oral toxicity	: LD50 (Ra	it): > 2,000 mg/kg
		Method:	DECD Test Guideline 423
		Assessm icity	ent: The substance or mixture has no acute oral t
		•	Based on data from similar materials
Acute	e dermal toxicity		bbit): > 2,000 mg/kg Based on data from similar materials
Skin	corrosion/irritation		
Not c	lassified based on av	ailable informatio	n.
Com	oonents:		
Talc:			
Speci		: Rabbit	
Resu	lt	: No skin i	ritation
Magn	esium stearate:		
Speci		: Rabbit	
Resul Rema		: No skin i : Based or	data from similar materials
Serio	us eye damage/eye	irritation	
	lassified based on av		n.
<u>Com</u>	ponents:		
Talc:			
Speci		: Rabbit	
Resu	lt	: No eye ir	ritation



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Magnesium stearate:

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Talc:

Exposure routes	:	Skin contact
Species	:	Humans
Result	:	negative

Magnesium stearate:

Test Type :	Maximisation Test
Exposure routes :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	negative
Remarks :	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

17β-hydroxyestra-4,9,11-trien-3-one 17-acetate:

Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Test system: Salmonella typhimurium Result: negative
	Test Type: Micronucleus test Test system: Chinese hamster fibroblasts Result: negative
Genotoxicity in vivo :	Test Type: Micronucleus test Species: Mouse Result: negative
	Test Type: Micronucleus test Species: Rat Result: negative
Germ cell mutagenicity - :	Weight of evidence does not support classification as a germ



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sment	cell mu	itagen.		
oxicity in vitro	thesis	ype: DNA damage and repair, unscheduled DNA syn in mammalian cells (in vitro) : negative		
Genotoxicity in vivo		Test Type: Chromosome aberration test in vitro Species: Rat Application Route: Ingestion Result: negative		
esium stearate:				
oxicity in vitro	Result	ype: In vitro mammalian cell gene mutation test : negative ks: Based on data from similar materials		
	Metho Result	ype: Chromosome aberration test in vitro d: OECD Test Guideline 473 : negative ks: Based on data from similar materials		
	Result	ype: Bacterial reverse mutation assay (AMES) : negative ks: Based on data from similar materials		
nogenicity				
cted of causing cance	er.			
onents:				
ydroxyestra-4,9,11-t	rien-3-one 17	-acetate:		
es Pouto		, male and female		
		Э		
Organs	: Liver			
es	: Rat, m	ale and female		
Application Route		a		
Result Target Organs				
ogenicity - Assess-	: Limited	d evidence of carcinogenicity in animal studies		
es		Mouse		
		ion (dust/mist/fume)		
Exposure time Result		S /e		
	sment oxicity in vitro oxicity in vivo esium stearate: oxicity in vitro esium stearate: oxicity in vitro oxicity in vitro discord of causing cance onents: ydroxyestra-4,9,11-tr es ation Route Organs es ation Route Organs ogenicity - Assess-	sment cell mu oxicity in vitro : Test Ty thesis i Result: oxicity in vivo : Test Ty Specie Applica Result: esium stearate: oxicity in vitro : Test Ty Result: Remar Test Ty Method Result: Remar Test Ty Result: Remar Test Ty Res		



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Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Components:

17β-hydroxyestra-4,9,11-trien-3-one 17-acetate:				
Effects on fertility :	Test Type: Two-generation study Species: Rat Application Route: Oral Fertility: LOAEL: 0.18 mg/kg body weight Result: Postimplantation loss.			
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: oral (feed) Developmental Toxicity: LOAEL: 20 mg/kg body weight Result: Malformations were observed.			
Reproductive toxicity - As- : sessment	Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.			
Talc:				
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative			
Magnesium stearate:				
Effects on fertility :	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials			
Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials			

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Endocrine system, Blood) through prolonged or repeated exposure if swallowed.



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Comr	oonents:		
		trien-3-one 17-acetat	e:
	sure routes	: Ingestion	
	et Organs	: Endocrine sys	
Asses	ssment	: Causes dama exposure.	ge to organs through prolonged or repeate
Repe	ated dose toxicity		
Comp	oonents:		
17β-h	ydroxyestra-4,9,11-	trien-3-one 17-acetat	e:
Speci		: Pig	
NOAE		: 0.004 mg/kg	
LOAE		: 0.08 mg/kg : 14 Weeks	
	sure time et Organs		Liver, Uterus (including cervix)
Targe	at Organs	. Testis, Ovary,	
Speci		: Rat	
NOAE		: 0.04 mg/kg	
LOAE		: 3.6 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 23 Weeks : Blood	
Targe	d Organs	. 51000	
Speci	es	: Monkey, fema	le
NOAE		: 0.01 mg/kg	
LOAE		: 0.04 mg/kg	
	cation Route	: Oral	
	sure time	: 122 Days	
Targe	et Organs	: female reprod	uctive organs
Speci	es	: Monkey, male	
NOAE		: 0.002 mg/kg	
LOAE		: 0.04 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 30 Days : male reproduc	tivo organo
Tarye	at Organs		suve organs
Speci		: Rat	
NOAE		: 0.05 mg/kg	
LOAE		: 0.1 mg/kg	
	cation Route sure time	: Oral : 3 Months	
	et Organs		tive organs, Ovary, Uterus (including cerv
Magn	esium stearate:		
Speci		: Rat	
NOAE		: > 100 mg/kg	
Applic	cation Route	: Ingestion	





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Expos Rema	sure time arks	:	90 Days Based on data	from similar materials			
-	ration toxicity lassified based on availa	able	information.				
Ехре	rience with human exp	osi	ire				
Com	ponents:						
17 β- Ի	ydroxyestra-4,9,11-trie	en-3	-one 17-acetate	2:			
Inges		:	Symptoms: male reproductive effects, gynecomastia, changes in libido				
. ECOL	OGICAL INFORMATIO	N					
East	a violty						
	oxicity						
<u>Com</u>	ponents:						
Toxic	hydroxyestra-4,9,11-trie ity to fish (Chronic tox-		NOEC (Pimeph	e: nales promelas (fathead minnow)): 0.000035			
icity)			mg/l Exposure time: 21 d Method: OECD Test Guideline 229 Remarks: Based on data from similar materials				
M-Factoricit	ctor (Chronic aquatic ty)	:	1,000				
Talc:							
Toxic	ity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l Exposure time: 24 h				
Magn	esium stearate:						
Toxic	ity to fish	:	Exposure time: Method: DIN 38				
	ity to daphnia and other tic invertebrates	:	EL50 (Daphnia Exposure time:	magna (Water flea)): > 1 mg/l 47 h			
aqua			Test substance Method: Directi Remarks: Base	Water Accommodated Fraction we 67/548/EEC, Annex V, C.2. ed on data from similar materials he limit of solubility			
Toxicity to algae/aquatic : plants		:	EL50 (Pseudokirchneriella subcapitata (green algae)): > mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201				



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				l on data from similar materials limit of solubility	
			mg/l Exposure time: 7 Test substance: Method: OECD	okirchneriella subcapitata (green algae)): > 1 72 h Water Accommodated Fraction Test Guideline 201 I on data from similar materials	
Toxic	Toxicity to microorganisms		EC10 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials		
Persi	stence and degradab	ility			
Com	oonents:				
-	esium stearate: gradability		Result: Not biodo Remarks: Based	egradable I on data from similar materials	
Bioad	ccumulative potential				
Com	oonents:				
17β-h	ydroxyestra-4,9,11-tr	ien-3-	one 17-acetate:		
Partiti	ion coefficient: n- ol/water		log Pow: 3.77		
Partiti	esium stearate: ion coefficient: n- ol/water	:	log Pow: > 4		
	l ity in soil ata available				
	r adverse effects ata available				
3. DISPO	SAL CONSIDERATIO	NS			
Dispo	osal methods				
-	e from residues	:		of waste into sewer.	

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



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (17β-hydroxyestra-4,9,11-trien-3-one 17-acetate)
Class Packing group Labels Environmentally hazardous	::	9 III 9 yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (17β-hydroxyestra-4,9,11-trien-3-one 17-acetate)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(17β-hydroxyestra-4,9,11-trien-3-one 17-acetate)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

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.

15. REGULATORY INFORMATION

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





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ter of		n No. 8	87/M-IND/PER/9	ER/4/2013 concerning the Revisio 2009 concerning Globally Harmon Is.	
	lation of the Ministe rdous to Health	r of H	ealth No. 472 o	1996 on the Safeguarding of Sub	stances
Haza	rdous substances tha	t must	be registered	: Not applicable	
Gove stanc	-	No. 74	of 2001 on the	Management of Hazardous and To	oxic Sub
Haza	rdous substances app	proved	for use	: Not applicable	
Prohi	bited substances			: Not applicable	
Restr	icted substances			: Not applicable	
Regu Mater		y of Tı	ade No. 7 of 20	22 on Distribution and Control of	Hazardo
	of hazardous materia bl, Annex I	ls subj	ject to distributio	and : Not applicable	
Type	of hazardous materia	ls sub	iect to distributio	and : Not applicable	
	ol, Annex II			rand . Not applicable	
contro	bl, Annex II				
contro	bl, Annex II components of this p			n the following inventories:	
Contro The c	bl, Annex II components of this p		ct are reported		
The c	bl, Annex II		ct are reported not determined		
The c AICS DSL IECS	bl, Annex II		ct are reported not determined not determined		
The c AICS DSL IECS	bl, Annex II components of this p		ct are reported not determined not determined		
The c AICS DSL IECS OTHE	ol, Annex II components of this p C R INFORMATION		ct are reported not determined not determined not determined		
The c AICS DSL IECS OTHE Revis Furth Source	ol, Annex II components of this p C R INFORMATION ion Date er information ces of key data used t ile the Safety Data	produc : : :	ct are reported not determined not determined not determined 2023/09/30 Internal technic	n the following inventories: al data, data from raw material SDS earch results and European Chemic	
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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.

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