

Fluralaner / Diethyltoluamide Liquid Formulation

Version 9.6	Revision Date: 30.09.2023	•-	S Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016		
SECTION	1. IDENTIFICATION					
Produ	Product name		Fluralaner / Diethyltoluamide Liquid Formulation			
Manu	ifacturer or supplier's	s detai	ils			
Comp	Company		MSD			
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP			
Telep	hone	:	908-740-4000			
Emer	gency telephone	:	1-908-423-6000			
E-ma	E-mail address		EHSDATASTEWARD@msd.com			
Reco	mmended use of the	chem	ical and restricti	ons on use		
	mmended use ictions on use	:	: Veterinary product: Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 2
Acute toxicity (Inhalation)	:	Category 5
Reproductive toxicity	:	Category 1B
Aspiration hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H225 Highly flammable liquid and vapor. H305 May be harmful if swallowed and enters airways. H333 May be harmful if inhaled. H360D May damage the unborn child. H410 Very toxic to aquatic life with long lasting effects.



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Preca	autionary Statements		special instructions			
		and understoo P210 Keep av and other igni P273 Avoid re	od. way from heat, hot tion sources. No s elease to the enviro rotective gloves/ pi			
		CENTER/ doc P303 + P361 Iy all contamir P304 + P312 you feel unwe P308 + P313 attention.	ctor. + P353 IF ON SKI nated clothing. Rin IF INHALED: Call ell. IF exposed or con f induce vomiting.	Immediately call a POISON N (or hair): Take off immediate- se skin with water. a POISON CENTER/ doctor if cerned: Get medical advice/		
		Storage: P405 Store lo	cked up.			
Disposal: P501 Dispose of contents/ container to an approved wast disposal plant.						
	r hazards which do n		ation			
Vapo	rs may form explosive	mixture with air.				
ECTION	3. COMPOSITION/IN	FORMATION ON INC				
	tance / Mixture	: Mixture				
Com	ponents					
	nical name		CAS-No.	Concentration (% w/w)		
	Dimethylacetamide		127-19-5	>= 30 -< 50		
Flura			864731-61-3	>= 25 -< 30		

Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-
furanyl)methyl]-ω-hydroxy-31692-85-0>= 10 -< 20</th>N,N-Diethyl-m-toluamide134-62-3>= 10 -< 20</td>Acetone67-64-1>= 10 -< 20</td>

SECTION 4. FIRST AID MEASURES

General advice

 In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical

When symptoms persist or in all cases of doubt seek medical advice.



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lf in	haled		remove to fresh air. al attention.					
In c	ase of skin contact	contact, immediately flush skin with soap and plenty ontaminated clothing and shoes. al attention. hing before reuse. y clean shoes before reuse.						
In c	ase of eye contact		Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.					
lf sv	vallowed	: If swallow If vomiting Call a phy Rinse mou	ed, DO NOT induce vomiting. occurs have person lean forward. sician or poison control center immediately. uth thoroughly with water. e anything by mouth to an unconscious person.					
and dela	effects, both acute and orged section of first-aiders	: May be ha May be ha May dama : First Aid ro	armful if swallowed and enters airways. Armful if inhaled. Age the unborn child. Age sponders should pay attention to self-protection, the recommended personal protective equipment					
Note	es to physician		when the potential for exposure exists (see section 8). : Treat symptomatically and supportively.					

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Fluorine compounds Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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	Personal precautions, protec- tive equipment and emer- gency procedures		:	Remove all sources of ignition. Ventilate the area. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).				
	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or e of contaminated wash water. should be advised if significant spillages			
	Methods and materials for : containment and cleaning up		:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.				

SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation	 See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.



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	tions for safe storage	Store locked up. Keep tightly clos Keep in a cool, w Store in accorda Keep away from Do not store with Strong oxidizing Self-reactive sub Organic peroxide Flammable solid Pyrophoric liquid Pyrophoric solides Self-heating sub Substances and flammable gases Explosives Gases	vell-ventilated place. nce with the particular national regulations. heat and sources of ignition. the following product types: agents stances and mixtures s s s stances and mixtures mixtures which in contact with water emit				
		Very acutely toxic substances and mixtures					

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingreatents with workplace	,								
Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis					
		exposure)	concentration						
N,N-Dimethylacetamide	127-19-5	CMP	10 ppm	AR OEL					
	Further inform	Further information: Skin							
		TWA	10 ppm	ACGIH					
Fluralaner	864731-61-3	TWA	100 μg/m3 (OEB 2)	Internal					
	Further inform	ation: Skin							
		Wipe limit	1000 µg/100 cm ²	Internal					
Acetone	67-64-1	CMP	500 ppm	AR OEL					
	Further inform	Further information: A4 - Not classifiable as a human carcinogen							
		CMP - CPT	750 ppm	AR OEL					
	Further inform	ation: A4 - Not c	lassifiable as a huma	n carcinogen					
		TWA	250 ppm	ACGIH					
		STEL	500 ppm	ACGIH					

Ingredients with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N,N-Dimethylacetamide	127-19-5	N- methylaceta mide	Urine	after the last shift of the last day of the work	30 mg/g creatinine	AR BEI



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				N- Methylaceta mide	Urine	week End of shift at end of work-	30 mg/g creatinine	ACGI BEI
Aceto	ne	67-64-1	1	Acetone	Urine	week End of shift	50 mg/l	AR B
				Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGI BEI
Engir	neering measures	:	tech less All e desi prote	nologies to co quick connect engineering co gn and opera ect products,	ontrol airbo ctions). ontrols sho ted in acco workers, a	g controls and orne concentr ould be impler ordance with and the enviro ot require spe	rations (e.g., nented by fac GMP principl onment.	drip- cility es to
				explosion-pro pment.	oof electric	cal, ventilating	g and lighting	
Respi	onal protective equ iratory protection Iter type protection	iipment :	expo reco	osure assessi	ment demo idelines, u	entilation is no onstrates exp ise respirator paratus	osures outsid	
Ма	aterial	:	Che	mical-resistar	nt gloves			
	emarks protection	:	the s Wea If the mist Wea pote	selection of ha ar safety glass e work enviro s or aerosols ar a faceshield	and protect ses with signment or a wear the d or other f	s flammable, ction. de shields or activity involve appropriate g full face prote o the face wit	goggles. es dusty conc loggles. ction if there	litions, is a
	and body protection ene measures	:	Wor If ex eye work Whe Was The engi apprindu	k uniform or l posure to che flushing syste king place. en using do no sh contaminat effective ope neering contr ropriate dego	emical is lil ems and sa ot eat, drin ed clothing ration of a ols, prope wning and monitorin	kely during ty afety showers k or smoke. g before re-us facility should r personal pro decontamina g, medical su	s close to the se. d include revi ptective equip ttion procedu	iew of oment, res,



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SECTIO	N 9. PHYSICAL AND CHE	ΞΜΙΟ		S
Арр	earance	:	liquid	
Colo	or	:	yellow	
Odo	pr	:	No data available	e
Odo	or Threshold	:	No data available	e
рН		:	No data available	e
Melt	ting point/freezing point	:	No data available	e
Initia rang	al boiling point and boiling ge	:	103 °C	
Flas	sh point	:	7 °C	
Eva	poration rate	:	No data available	e
Flan	nmability (solid, gas)	:	Not applicable	
Flan	nmability (liquids)	:	Not applicable	
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	e
Vap	or pressure	:	67 hPa (20 °C)	
Rela	ative vapor density	:	No data available	e
Rela	ative density	:	No data available	e
Den	sity	:	1,059 g/cm ³	
	ubility(ies) Vater solubility	:	No data available	e
	ition coefficient: n- nol/water	:	Not applicable	
	bignition temperature	:	No data available	e
Dec	omposition temperature	:	No data available	e
	cosity /iscosity, kinematic	:	No data available	e
Exp	losive properties	:	Not explosive	



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Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.	
Мс	lecular weight	:	No data available	9	
Pa	rticle size	:	Not applicable		
SECTIO	ON 10. STABILITY AND RE	EAC	ΤΙVITY		
Ch Po	Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. Highly flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.		
Inc Ha	Conditions to avoid Incompatible materials Hazardous decomposition products		Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.		
SECTIO	ON 11. TOXICOLOGICAL I	NFC	RMATION		
	ormation on likely routes of posure	of : Inhalation Skin contact Ingestion Eye contact			
	ute toxicity ly be harmful if inhaled.				
	oduct: ute oral toxicity	:	LD50 (Rat): > 2.00 Remarks: No mor	00 mg/kg tality observed at this dose.	
Ac	ute inhalation toxicity	:	Acute toxicity estimate: 5,95 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Ac	ute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Symptoms: Erythema		
<u>Co</u>	mponents:				
	N-Dimethylacetamide: ute oral toxicity	:	LD50 (Rat): 4.800	mg/kg	
	ute inhalation toxicity	:	LD50 (Rat): 4.800 mg/kg LC50 (Rat): 2,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist		



rsion	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.2023462527-00022Date of first issue: 15.01.2016
Acute dermal toxicity		: Acute toxicity estimate: 1.100 mg/kg Method: Expert judgment Remarks: Based on national or regional regulation.
Flura	laner:	
Acute	oral toxicity	 LD50 (Rat): > 2.000 mg/kg Remarks: No mortality observed at this dose. No significant adverse effects were reported
Acute	dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Remarks: No significant adverse effects were reported
Poly(oxy-1,2-ethanediyl),	α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:
Acute	oral toxicity	 LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 423 Remarks: Based on data from similar materials
N,N-C	Diethyl-m-toluamide:	
Acute	oral toxicity	: LD50 (Rat): 1.950 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 5,95 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute	dermal toxicity	: LD50 (Rat): 5.000 mg/kg
Aceto	one:	
Acute	oral toxicity	: LD50 (Rat): 5.800 mg/kg
Acute inhalation toxicity		: LC50 (Rat): 76 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute	dermal toxicity	: LD50 (Rabbit): 7.426 mg/kg
-	corrosion/irritation assified based on ava	ilable information.
Produ		
Speci Resul		: Rabbit : No skin irritation
<u>Comp</u>	oonents:	
N,N-C)imethylacetamide:	
Speci Resul	es	: Rabbit : No skin irritation
Flura	laner:	

Fluralaner:



Species : Rabbit Result Result : No skin irritation Poly(oxy-1,2-othanediyl), of-{(tetrahydro-2-furanyl)methyl]-w-hydroxy-: Species Species : reconstructed human epidermis (RhE) Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation NN-Diethyl-m-toluamide: : Species Species : Rabbit Result : No skin irritation Acetone: : Result : Assessment : : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation . . No classified based on available information. . . Species : Rabbit . Result : fritation to eyes, reversing within 21 days Species : Rabbit . Result : fritation to eyes, reversing within 21 days Fluralaner: . . . Species :	ersion 6	Revision Date: 30.09.2023	SDS Number: 462527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016
Result : No skin irritation Poly(oxy-1,2-ethanediyl), o-[(tetrahydro-2-furanyl)methyl]-w-hydroxy-: Species : reconstructed human epidermis (RhE) Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation N,N-Diethyl-m-toluamide: : Species Species : Rabbit Result : No skin irritation Acetone: . Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation Not classified based on available information. Product: Species : Rabbit Result : Mild eye irritation Not classified based on available information. Product: : Species : Rabbit Result : Mild eye irritation Components: . N,N-Dimethylacetamide: . Species : Rabbit Result : Inritation to eyes, reversing within 21 days Fluralaner: . Species : Eased on data from simillar materials	Specie	es	: Rabbit	
Species : reconstructed human epidermis (RhE) Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation N,N-Diethyl-m-toluamide: : Species : Rabbit Result : No skin irritation Acetone: . Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation . Not classified based on available information. . Product: : Species : Rabbit Result : Mild eye irritation Not classified based on available information. . Product: : Species : Rabbit Result : Mild eye irritation Components: . N,N-Dimethylacetamide: . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: . Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar mate				on
Method : OECD Test Guideline 439 Remarks : Based on data from similar materials Result : No skin irritation N,N-Diethyl-m-toluamide: : Species Species : Rabbit Result : No skin irritation Acetone: . . Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation . Not classified based on available information. . Product: : Rebuit Species : Rabbit Result : Mild eye irritation NN-Dimethylacetamide: . . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: . . Species : Rabbit Result : Iristue Culture Method : OECD Test Guideline 432 Remarks : Based on data from similar materials Species : Based on	Poly(oxy-1,2-ethanediyl),	α-[(tetrahydro-2-fura	anyl)methyl]-ω-hydroxy-:
Remarks : Based on data from similar materials Result : No skin irritation N,N-Diethyl-m-toluamide: : Species Species : Rabbit Result : No skin irritation Acetone: . . Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation . Not classified based on available information. . Product: . . Species : Rabbit Result : Mild eye irritation Components: . . N,N-Dimethylacetamide: . . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: . . Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: . Mild eye irritation Species : Tissue Culture Method : OECD Test Guideline 492	Specie	es	: reconstructed	human epidermis (RhE)
Result: No skin irritationN,N-Diethyl-m-toluamide: Species: Rabbit ResultResult: No skin irritationAcetone: Assessment: No skin irritationAcetone: Mathematication: Repeated exposure may cause skin dryness or cracking.Serious eye damage/eye irritation Not classified based on available information.Product: Byecies: Rabbit ResultSpecies: Rabbit ResultResult: Mild eye irritationDecies: Mild eye irritationDecies: Rabbit ResultResult: Irritation to eyes, reversing within 21 daysFluralaner: Result: Mild eye irritationDefecies: Rabbit ResultResult: Irritation to eyes, reversing within 21 daysSpecies: Rabbit ResultResult: Defo(xy-1,2-ethanediy), oc-[(tetrahydro-2-furany])methyl]-w-hydroxy-: 				
N,N-Diethyl-m-toluamide:Species:RabbitResult:No skin irritationAcetone:.Assessment:Repeated exposure may cause skin dryness or cracking.Serious eye damage/eye irritation.Not classified based on available informationProduct:.Species:Result:Mild eye irritationComponents:N,N-Dimethylacetamide:Species:Result:Irritation to eyes, reversing within 21 daysFluralaner:Species:Result:Mild eye irritationPoly(oxy-1,2-ethanediyl), oc-[(tetrahydro-2-furanyl)methyl]-w-hydroxy-:Species:Species:Method:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Based on data from similar materialsRemarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 days	Rema	rks	: Based on data	a from similar materials
Species : Rabbit Result : No skin irritation Acetone: . Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation . Not classified based on available information. . Product: . Species : Result : Mild eye irritation Components: N,N-Dimethylacetamide: Species : Species : Result : Irritation to eyes, reversing within 21 days Fluralaner: Species : Species : Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), o-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy: Species : Species : Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : Species : Nuethod	Result	t	: No skin irritati	on
Result : No skin irritation Acetone: Assessment Assessment : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation Not classified based on available information. Product: Species Species : Rabbit Result : Mild eye irritation NN-Dimethylacetamide: Species Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: Species Species : Rabbit Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : Boxine cornea Method : OECD Test Guideline 437 Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days Method : OECD Test Guideline 437 Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 2	N,N-D	iethyl-m-toluamide	:	
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Not classified based on available information. Product: Species : Rabbit Result : Mild eye irritation Components: N,N-Dimethylacetamide: Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner: Species : Rabbit Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : Based on data from similar materials Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: Species Species : Rabbit	Asses	sment	: Repeated exp	osure may cause skin dryness or cracking.
Product:Species:RabbitResult:Mild eye irritationComponents:N,N-Dimethylacetamide:Species:RabbitResult:Irritation to eyes, reversing within 21 daysFluralaner:Species:RabbitResult:Mild eye irritationPoly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species:Tissue CultureMethod:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Species:Based on data from similar materialsSpecies:Based on data from similar materialsSpecies:Based on data from similar materialsSpecies:Remarks:Based on data from similar materialsRemarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysSpecies:Result:Result:Result:Result:Result:Result:Result:Result:Result:Result	Serio	us eye damage/eye	irritation	
Species:Rabbit Mild eye irritationResult:Mild eye irritationComponents:	Not cla	assified based on ava	ailable information.	
Result:Mild eye irritationComponents:N,N-Dimethylacetamide:Species:RabbitResult:Irritation to eyes, reversing within 21 daysFluralaner:Species:RabbitResult:Mild eye irritationPoly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species:Tissue CultureMethod:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsRemarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Result:Result:Result:Result:Result:Result:Result:Result:Result:Result:Result <th:< th="">Result<t< td=""><td><u>Produ</u></td><td><u>ict:</u></td><td></td><td></td></t<></th:<>	<u>Produ</u>	<u>ict:</u>		
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N,N-Dimethylacetamide: Species : Rabbit Result : Irritation to eyes, reversing within 21 days Fluralaner:	Result	t	: Mild eye irrita	lion
Species:Rabbit Irritation to eyes, reversing within 21 daysFluralaner:Species:Rabbit ResultResult:Mild eye irritationPoly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species:Tissue Culture 0 ECD Test Guideline 492 RemarksRemarks:Based on data from similar materialsSpecies:Bovine cornea 0 ECD Test Guideline 437 RemarksResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide: Species:Species:ResultResult </td <td><u>Comp</u></td> <td>onents:</td> <td></td> <td></td>	<u>Comp</u>	onents:		
Result:Irritation to eyes, reversing within 21 daysFluralaner:Species:RabbitResult:Mild eye irritationPoly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species:Tissue CultureMethod:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies::Method:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Rabbit	N,N-D	imethylacetamide:		
Fluralaner: Species : Rabbit Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : Bovine cornea Method : OECD Test Guideline 437 Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: : Rabbit				
Species : Rabbit Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : OECD Test Guideline 437 Remarks : Based on data from similar materials Species : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: : Rabbit	Result	t	: Irritation to ey	es, reversing within 21 days
Result: Mild eye irritationPoly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species: Tissue CultureMethod: OECD Test Guideline 492Remarks: Based on data from similar materialsSpecies: Bovine corneaMethod: OECD Test Guideline 437Remarks: Based on data from similar materialsRemarks: Based on data from similar materialsResult: Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide:SpeciesSpecies: Rabbit	Flural	aner:		
Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-:Species:Tissue CultureMethod:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide:Species:Rabbit				
Species:Tissue CultureMethod:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Rabbit	Result	t	: Mild eye irrita	ion
Method:OECD Test Guideline 492Remarks:Based on data from similar materialsSpecies:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Rabbit	Poly(c	oxy-1,2-ethanediyl),	α-[(tetrahydro-2-fur	anyl)methyl]-ω-hydroxy-:
Remarks:Based on data from similar materialsSpecies:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Rabbit				
Species:Bovine corneaMethod:OECD Test Guideline 437Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Rabbit				
Method : OECD Test Guideline 437 Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: : Rabbit	Rema	rks	: Based on data	a from similar materials
Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: Species : Rabbit				
Result:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide::Species:Rabbit				
N,N-Diethyl-m-toluamide: Species : Rabbit	Rema	rks	: Based on data	a from similar materials
Species : Rabbit	Result	t	: Irritation to ey	es, reversing within 21 days
I	N,N-D	iethyl-m-toluamide	1	
			: Rabbit	
			: Irritation to ey	es, reversing within 21 days



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Rer	narks	:	Based on nationa	l or regional regulation.
Spe Res	etone: ecies sult thod	: : :	Rabbit Irritation to eyes, OECD Test Guide	reversing within 21 days eline 405
Res	spiratory or skin sensit	tizatio	n	
	n sensitization classified based on ava	ilable i	nformation.	
	spiratory sensitization classified based on ava	ilable i	nformation.	
Pro	duct:			
Rou	et Type utes of exposure ecies sult		Maximization Tes Dermal Guinea pig Not a skin sensitiz	
<u>Co</u>	mponents:			
N,N	I-Dimethylacetamide:			
	utes of exposure ecies sult	: : :	Skin contact Guinea pig negative	
Flu	ralaner:			
Tes	t Type utes of exposure ecies	:	Maximization Tes Dermal Guinea pig Not a skin sensitiz	
Pol	y(oxy-1,2-ethanediyl),	α-[(tet	rahydro-2-furany	l)methyl]-ω-hydroxy-:
Tes Met Res	at Type thod	:	KeratinoSens ass OECD Test Guide negative	ay
Met Res	st Type thod sult marks	: : :	OECD Test Guide positive	activity Assay (DPRA) eline 442C m similar materials
Met Res	st Type thod sult marks		Dendritic cell activ OECD Test Guide negative Based on data fro	



Versic 9.6	on	Revision Date: 30.09.2023		9S Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016
T R S	Acetone: Test Type : Routes of exposure : Species : Result :		:	Maximization Tes Skin contact Guinea pig negative	t
Ν	Not clas	ell mutagenicity ssified based on availa	able	information.	
<u>c</u>	compo	onents:			
		nethylacetamide: xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
G	Genoto	xicity in vivo	:	Test Type: Roden Species: Rat Application Route Method: OECD To Result: negative	
F	Iurala	ner:			
		xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Mouse Result: negative	e Lymphoma
				Test Type: Chrom Result: negative	osomal aberration
G	Genoto	xicity in vivo	:	Test Type: Micror Species: Mouse Cell type: Bone m Application Route Result: negative	arrow
P	Poly(o)	w-1 2-ethanedivl) a-	[(tot	rabydro-2-furany)methyl]-ω-hydroxy-:
	• •	xicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	ial reverse mutation assay (AMES)
		ethyl-m-toluamide: xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
-					
	Aceton Genoto	e: xicity in vitro	:	Test Type: In vitro Result: negative	mammalian cell gene mutation test



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			Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosome aberration test in vitro
Geno	Genotoxicity in vivo :		Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
	nogenicity lassified based on availa	able	information.	
	oonents:			
N,N-D	Dimethylacetamide:			
Speci		:	Rat	
	cation Route	÷	inhalation (vapor)	
Resul	sure time It	:	18 month(s) negative	
Flura	laner:			
Carcii ment	nogenicity - Assess-	:	No data available	
N,N-C	Diethyl-m-toluamide:			
Speci		:	Rat	
	cation Route sure time	÷	Ingestion 104 weeks	
Resul		:	negative	
Aceto	one:			
Speci		:	Mouse	
	cation Route sure time	÷	Skin contact	
Resul		:	424 days negative	
Repro	oductive toxicity			
May c	damage the unborn child	d.		
Comp	oonents:			
N,N-E	Dimethylacetamide:			
Effect	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Inhalation



Versic 9.6	n	Revision Date: 30.09.2023		9S Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016
E	Effects on fetal development		:	Test Type: Embryo-fetal development Species: Rat Application Route: Inhalation Result: positive	
	Reprod essme	uctive toxicity - As- ent	:	Clear evidence of animal experimen	adverse effects on development, based on ts.
F	lurala	ner:			
E	Effects on fertility		:	General Toxicity F	
				Species: Dog Application Route Fertility: NOAEL: Result: No effects development were	75 mg/kg body weight on fertility and early embryonic
E	Effects on fetal development		:	Result: Embryoto:	: Oral oxicity: NOAEL: 100 mg/kg body weight kic effects and adverse effects on the rected only at high maternally toxic doses,
				Result: Skeletal m	
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: Skeletal m	: Dermal oxicity: NOAEL: 100 mg/kg body weight
	Reprod essme	uctive toxicity - As- ent	:	Suspected of dam	naging the unborn child.
N	I,N-Die	ethyl-m-toluamide:			
E	ffects	on fetal development	:	Test Type: Embry Species: Rat Application Route	o-fetal development : Ingestion



Version 9.6	Revision Date: 30.09.2023		S Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016
			Result: negative	
Aceto	one:			
	is on fertility	:	Test Type: One- Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion
Effect	Effects on fetal development		Species: Rat	yo-fetal development e: inhalation (vapor)
	-single exposure lassified based on availa	ıble	information.	
	oonents:			
Aceto Asses	one: ssment	:	May cause drow	siness or dizziness.
	-repeated exposure assified based on availa	ble	information.	
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
N,N-C	Dimethylacetamide:			
	EL	:	Rat 90 mg/m ³ 360 mg/m ³ inhalation (vapor 24 Months)
Elura	laner:			
Speci NOAE Applic Expos	es EL cation Route sure time et Organs		Dog 1 mg/kg Oral 52 Weeks Liver No significant ad	verse effects were reported
	EL cation Route sure time	:	Juvenile dog 56 - 280 mg/kg Oral 24 Weeks Diarrhea	
Speci LOAE Applic		:	Rat 400 mg/kg Oral	



Version 9.6	Revision Date: 30.09.2023	• •	DS Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016
Exposure time Target Organs		:	90 Days Liver, thymus gla	nd
Expos	EL cation Route sure time tt Organs			verse effects were reported
	es EL	:	Rat 900 mg/kg 1.700 mg/kg Ingestion 90 Days	
		:	Rat 45 mg/l inhalation (vapor) 8 Weeks)

Aspiration toxicity

May be harmful if swallowed and enters airways.

Components:

Fluralaner:

Not applicable

Acetone:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Experience with human exposure

Product:		
Skin contact	:	Remarks: May irritate skin.
Eye contact	•	Remarks: May cause eye irritation.
<u>Components:</u>		
Fluralaner:		
Skin contact	:	Remarks: May irritate skin.
Eye contact	:	Remarks: May cause eye irritation.



Fluralaner / Diethyltoluamide Liquid Formulation

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
N,N-Dimethylacetamide:		
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC10: > 1.995 mg/l Exposure time: 30 min
Fluralaner:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,0488 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0,015 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): >= 0,08 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.
Toxicity to fish (Chronic tox- icity)	:	NOEC (Zebrafish): >= 0,049 mg/l Exposure time: 21 d Method: OECD Test Guideline 204 Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0,0736 µg/l Exposure time: 21 d Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1.000
Poly(oxy-1,2-ethanedivl). α-Γ	(te	trahydro-2-furanyl)methyl]-ω-hydroxy-:

$Poly(oxy-1,2\text{-}ethanediyl), \ \alpha\text{-}[(tetrahydro-2\text{-}furanyl)methyl]-\omega\text{-}hydroxy\text{-}:$



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	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials			
			:	mg/l Exposure time: 72 Method: OECD Te			
				mg/l Exposure time: 72 Method: OECD Te			
	N.N-Die	ethyl-m-toluamide:					
	Toxicity	•	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te			
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 75 mg/l h		
	Toxicity plants	to algae/aquatic	:	ErC50 (Selenastru Exposure time: 72 Method: OECD Te			
				NOEC (Selenastro Exposure time: 72 Method: OECD Te			
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 3,7 mg/l d		
	Aceton	e:					
	Toxicity	to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 5.540 mg/l i h		
		to daphnia and other invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): 8.800 mg/l h		
	Toxicity plants	to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 96	chneriella subcapitata (green algae)): 7.000 i h		
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te			
	Toxicity	to microorganisms	:	EC50: 61.150 mg/	1		



Version 9.6	Revision Date: 30.09.2023		OS Number: 2527-00022	Date of last issue: 04.04.2023 Date of first issue: 15.01.2016			
			Exposure time: 3 Method: ISO 819				
Persi	Persistence and degradability						
Com	Components:						
N,N-I	Dimethylacetamide:						
Biode	egradability	:	Result: Not readi Biodegradation: Exposure time: 2 Remarks: The 10	70 %			
Poly	(oxy-1,2-ethanediyl), d	x-[(te	trahydro-2-furany	/l)methyl]-ω-hydroxy-:			
Biode	egradability	:		ly biodegradable. est Guideline 301F on data from similar materials			
N,N-I	Diethyl-m-toluamide:						
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	83,8 %			
Acet	one:						
Biode	egradability	:	Result: Readily b Biodegradation: Exposure time: 2	91 %			
Bioa	ccumulative potential						
<u>Com</u>	ponents:						
	llaner: ccumulation	:		sh factor (BCF): 79,4 ēst Guideline 305			
	ion coefficient: n- nol/water	:	log Pow: 4,5				
Poly	(oxy-1,2-ethanediyl), d	x-[(te	trahydro-2-furany	l)methyl]-ω-hydroxy-:			
	ion coefficient: n- nol/water	:	log Pow: < 4 Remarks: Calcula	ation			
N.N-I	Diethyl-m-toluamide:						
Partit	ion coefficient: n- nol/water	:	log Pow: 2,02				
Acet	one:						



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	Partition coefficient: n- octanol/water		:	log Pow: -0,27	0,23
	Mobili	ty in soil			
	Comp	onents:			
		aner: ution among environ- compartments	:	log Koc: 4,1	
	Other adverse effects				
	Comp	onents:			
	Flurala Result assess	s of PBT and vPvB	:	This substance is lating and toxic (F	not considered to be persistent, bioaccumu- PBT).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues Contaminated packaging	Dispose : Empty c handling Empty c	Do not dispose of waste into sewer. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or
	expose sources death.	pressurize, cut, weld, braze, solder, drill, grind, or such containers to heat, flame, sparks, or other of ignition. They may explode and cause injury and/or nerwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous		UN 1090 ACETONE SOLUTION 3 II 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen-	:	UN 1090 Acetone solution 3 II Flammable Liquids 364 353



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ger ai	ircraft)			
UN n	6-Code umber er shipping name	:	UN 1090 ACETONE SOL	UTION
Class Packing group		:	(Fluralaner) 3 II	
Label		:	" 3 F-E, S-D	
	e 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.

SECTION 15. REGULATORY INFORMATION

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	: 30.0	9.2023
Date format	: dd.m	ım.yyyy

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Full text of other abbreviations

ACGIH :		USA. ACGIH Threshold Limit Values (TLV)
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AR BI AR O ACGI ACGI AR O		:	Argentina. Biol Argentina. Occ 8-hour, time-we Short-term exp TLV (Threshold	

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 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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