SAFETY DATA SHEETS

This SDS packet was issued with item: 078928003

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078927998 078927999 078928000 078928001 078928002 078928004

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078928005



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
SECTION	1. IDENTIFICATION		
Produ	uct name	: Fluralaner / Di	iethyltoluamide Liquid Formulation
Manu	afacturer or supplier	's details	
			iethyltoluamide Liquid Formulation

Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A 07065
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accorda 1910.1200)	an	ce with the OSHA Hazard Communication Standard (29 CFR
Flammable liquids	:	Category 2
Reproductive toxicity	:	Category 1B
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H225 Highly flammable liquid and vapor. H360D May damage the unborn child.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, sparks, open flame and hot surfaces No smoking. P233 Keep container tightly closed. P241 Use explosion-proof electrical, ventilating and lighting equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves, protective clothing, eye protection and face protection.
		Response: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.



Version	Revision Date:	SDS Number:	Date of last issue: 09/21/2021
11.1	10/26/2021	412190-00017	Date of first issue: 01/15/2016

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

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

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

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :		Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)		
N,N-Dimethylacetamide	127-19-5	>= 30 - < 50		
Fluralaner	864731-61-3	>= 20 - < 30		
Poly(oxy-1,2-ethanediyl), α-	31692-85-0	>= 10 - < 20		
[(tetrahydro-2-furanyl)methyl]-ω-				
hydroxy-				
N,N-Diethyl-m-toluamide	134-62-3	>= 10 - < 20		
Acetone	67-64-1	>= 10 - < 20		
Actual concentration is withheld as a trade secret				

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	dvice immediately.	if you feel unwell, seek medical or in all cases of doubt seek medical
If inhaled	inhaled, remove to fresh	ı air.
In case of skin contact		se.
In case of eye contact	lush eyes with water as	
If swallowed	swallowed, DO NOT inc vomiting occurs have pe all a physician or poison inse mouth thoroughly w	luce vomiting. erson lean forward. control center immediately.
Most important symptoms and effects, both acute and	lay damage the unborn of	•



Version 11.1	Revision Date: 10/26/2021		OS Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
delayed Protection of first-aiders		:	and use the reco	ers should pay attention to self-protection, mmended personal protective equipment al for exposure exists (see section 8).
Notes	to physician	:		ically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	JRES	
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsui media	table extinguishing	:	High volume wat	er jet
Speci fightir	fic hazards during fire ng	:	fire. Flash back possi Vapors may form	d water stream as it may scatter and spread ble over considerable distance. explosive mixtures with air. bustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compou Fluorine compou Nitrogen oxides (nds
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. Iged containers from fire area if it is safe to do
	al protective equipment e-fighters	:		e, wear self-contained breathing apparatus. tective equipment.

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).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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.



Version	Revision Date:	SDS Number:	Date of last issue: 09/21/2021
11.1	10/26/2021	412190-00017	Date of first issue: 01/15/2016
		containment to can be pumped container. Clean up rema absorbent. Local or nation disposal of this employed in th determine whic Sections 13 an	, provide diking or other appropriate keep material from spreading. If diked material d, store recovered material in appropriate ining materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. d 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	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.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Gases



Version	Revision Date:	SDS Number:	Date of last issue: 09/21/2021
11.1	10/26/2021	412190-00017	Date of first issue: 01/15/2016

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
N,N-Dimethylacetamide	127-19-5	TWA	10 ppm	ACGIH
		TWA	10 ppm 35 mg/m ³	NIOSH REL
		TWA	10 ppm 35 mg/m³	OSHA Z-1
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	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m³	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m ³	OSHA Z-1

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	End of shift at end of work- week	30 mg/g Creatinine	ACGIH BEI
Acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ACGIH BEI

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016			
Hand	protection	concentration unknown, ap Follow OSH/ use NIOSH/ by air purifyin hazardous cl supplied resp release, expo circumstance	maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.			
Ма	aterial	: Chemical-res	sistant gloves			
Re	emarks		Take note that the product is flammable, which may impact			
Eye protection		: Wear safety If the work en mists or aero Wear a faces	of hand protection. glasses with side shields or goggles. nvironment or activity involves dusty conditions, psols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or			
	and body protection ene measures	 Work uniform If exposure to eye flushing working plac When using Wash contar The effective engineering appropriate of industrial hyg 	 Work uniform or laboratory coat. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	217 °F / 103 °C
Flash point	:	45 °F / 7 °C



Ver: 11.1		Revision Date: 10/26/2021		S Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016		
	Evapor	ation rate	:	No data available	2		
	-						
		ability (solid, gas)	:	Not applicable			
	Flamma	ability (liquids)	:	Not applicable			
		explosion limit / Upper bility limit	:	No data available			
		explosion limit / Lower bility limit	:	No data available	9		
	Vapor p	oressure	:	67 hPa (68 °F / 2	0 °C)		
	Relative	e vapor density	:	No data available	9		
	Relative density : No d		No data available	9			
	Density	,	:	1.059 g/cm ³			
	Solubili Wat	ty(ies) er solubility	:	No data available	9		
		n coefficient: n-	:	Not applicable			
	octanol Autoigr	/water hition temperature	:	No data available	9		
	Decom	position temperature	:	No data available	9		
	Viscosi Visc	ty cosity, kinematic	:	No data available	9		
	Explosi	ve properties	:	Not explosive			
	Ovidizir	ng properties		The substance o	r mixture is not classified as oxidizing.		
			•		0		
	Molecu	lar weight	:	No data available			
	Particle	e size	:	Not applicable			

SECTION 10. STABILITY AND REACTIVITY

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.
Conditions to avoid Incompatible materials Hazardous decomposition	:	Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known.



ersion .1	Revision Date: 10/26/2021	SDS Number: 412190-00017		Date of last issue: 09/21/2021 Date of first issue: 01/15/2016			
produ	cts						
CTION	11. TOXICOLOGICA	LINF	ORMATION				
Inhala Skin o Inges	contact	es of	exposure				
	e toxicity lassified based on ava	ailabla	information				
Produ		allable	iniormation.				
	e oral toxicity	:	LD50 (Rat): > Remarks: No	2,000 mg/kg mortality observed at this dose.			
Acute	inhalation toxicity	:	Exposure time Test atmosph				
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Symptoms: Erythema				
<u>Com</u>	oonents:						
N,N-E	Dimethylacetamide:						
Acute	oral toxicity	:	LD50 (Rat): 4,	,800 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): 2. Exposure time Test atmosph	e: 4 h			
Acute	e dermal toxicity	:	Method: Expe	ed on harmonised classification in EU regulatio			
Flura	laner:						
Acute	oral toxicity	:		2,000 mg/kg mortality observed at this dose. adverse effects were reported			
Acute	e dermal toxicity	:	LD50 (Rat): > Remarks: No	2,000 mg/kg significant adverse effects were reported			
Poly(oxy-1,2-ethanediyl),	α-[(te	trahydro-2-fura	anyl)methyl]-ω-hydroxy-:			
• •	oral toxicity	- •	LD50 (Rat, fer Method: OEC	male): > 2,000 mg/kg D Test Guideline 423 sed on data from similar materials			



ersion 1.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
N,N-E	Diethyl-m-toluamide:		
Acute	oral toxicity	: LD50 (Rat):	1,950 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tin Test atmosp	
Acute	e dermal toxicity	: LD50 (Rat):	5,000 mg/kg
Aceto	one:		
Acute	oral toxicity	: LD50 (Rat):	5,800 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): Exposure tin Test atmosp	ne: 4 ĥ
Acute	e dermal toxicity	: LD50 (Rabb	it): 7,426 mg/kg
-	corrosion/irritation lassified based on ava u <u>ct:</u>	ilable information.	
Speci		: Rabbit	
Resul	lt	: No skin irrita	ation
Com	<u>oonents:</u>		
N,N-D	Dimethylacetamide:		
Speci	es	: Rabbit	
Resu	lt	: No skin irrita	ation
Flura	laner:		
Speci	es	: Rabbit	
Resul		: No skin irrita	ation
Poly(oxy-1,2-ethanediyl),	α-[(tetrahydro-2-fu	ıranyl)methyl]-ω-hydroxy-:
Speci	es		ed human epidermis (RhE)
Metho			Guideline 439
Rema	arks	: Based on da	ata from similar materials
Resul	lt	: No skin irrita	ation
N,N-E	Diethyl-m-toluamide:		
Speci	-	: Rabbit	
Resul		: No skin irrita	ation
Aceto			

Acetone:



Assessment : Repeated exposure may cause skin dryness or crack 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 Flurataner: Species : Rabbit Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(ettrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Tissue Culture Method : OECD Test Guideline 492 Remarks : Based on data from similar materials Species : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Result : I	sion 1	Revision Date: 10/26/2021	SDS Number: 412190-00017	
Not classified based on available information. Product: Species : Result : Mild eye irritation Components: N,N-Dimethylacetamide: Species : Result : Result : Irritation to eyes, reversing within 21 days Fluralaner: Species : Species : Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : Species : Method : Species : Based on data from similar materials Species : Based on data from similar materials Remarks : Based on data from similar materials Result : N,N-Diethyl-m-toluamide: Species : Species : Result : Irritation to eyes, reversing within 21 days Remarks :	Asses	ssment	: Repeated e	exposure may cause skin dryness or crack
Product: Species:Rabbit ResultResult:Mild eye irritationComponents:				
Species : Rabbit Result : Mild eye irritation Components:				
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: 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: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Species : Rabbit Result : Irritation to eyes, re			. Dobbit	
N,N-Dimethylacetamide: 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 : 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: : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Species Species : Rabbit Result : Irritation to eyes, reversing within 21 days				tation
Species:Rabbit itResult:Irritation to eyes, reversing within 21 daysFluralaner::Species:Result:Mild eye irritationPoly(oxy-1,2-ethanediyl), o-[(tetrahydro-2-furanyl)methyl]-w-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 daysResult:Irritation to eyes, reversing within 21 daysRemarks:Based on harmonised classification in EU regulation 1272/2008, Annex VIAcetone:Species:Result:Irritation to eyes, reversing within 21 days	<u>Comp</u>	oonents:		
Species:RabbitResult:Irritation to eyes, reversing within 21 daysFluralaner:	N,N-C) imethylacetamide:		
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 : Bovine cornea Method : OECD Test Guideline 437 Remarks : Based on data from similar materials Remarks : Based on data from similar materials Result : OECD Test Guideline 437 Remarks : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : : Species : Rabbit Result : Irritation to eyes, reversing within 21 days Intro <t< td=""><td></td><td>-</td><td>: Rabbit</td><td></td></t<>		-	: 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 : Bovine cornea Method : OECD Test Guideline 437 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 Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days				eyes, reversing within 21 days
Result : Mild eye irritation Poly(oxy-1,2-ethanediyl), a-[(tetrahydro-2-furanyl)methyl]-w-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 Species : Based on data from similar materials Result : Irritation to eyes, reversing within 21 days N,N-Diethyl-m-toluamide: : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Rabbit Species : Rabbit Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI	Flura	laner:		
Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-hydroxy-: Species : 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 Species : Based on data from similar materials Remarks : 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: : Irritation to eyes, reversing within 21 days Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Rabbit Species : Rabbit Result : Irritation to eyes, reversing within 21 days			: Rabbit	
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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::Irritation to eyes, reversing within 21 daysSpecies:RabbitRemarks:Irritation to eyes, reversing within 21 daysRemarks:Based on harmonised classification in EU regulation 1272/2008, Annex VIAcetone::RabbitSpecies:RabbitResult:Irritation to eyes, reversing within 21 days	Poly(oxy-1,2-ethanediyl),	α-[(tetrahydro-2-f	uranyl)methyl]-ω-hydroxy-:
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Species Method:Bovine cornea OECD Test Guideline 437 Based on data from similar materialsResult:DEcD Test Guideline 437 				
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Remarks:Based on data from similar materialsResult:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide: Species Result Remarks:Rabbit :Species Remarks:Rabbit :Acetone: Species Result:Rabbit :Species Result:Rabbit :Acetone: Result::Species Result	Speci	es	: Bovine corr	nea
Result:Irritation to eyes, reversing within 21 daysN,N-Diethyl-m-toluamide:Species:RabbitResult:Irritation to eyes, reversing within 21 daysRemarks:Based on harmonised classification in EU regulation 1272/2008, Annex VIAcetone:Species:Rabbit :Result:Irritation to eyes, reversing within 21 days			: OECD Test	Guideline 437
N,N-Diethyl-m-toluamide: Species : Rabbit Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone: : Species : Rabbit Result : Irritation to eyes, reversing within 21 days	Rema	urks	: Based on d	ata from similar materials
Species : Rabbit Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone:	Resul	t	: Irritation to	eyes, reversing within 21 days
Result : Irritation to eyes, reversing within 21 days Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone:	N,N-C	Diethyl-m-toluamide:		
Remarks : Based on harmonised classification in EU regulation 1272/2008, Annex VI Acetone:	Speci	es		
Acetone: Species : Rabbit Result : Irritation to eyes, reversing within 21 days				
Species:RabbitResult:Irritation to eyes, reversing within 21 days	Rema	Irks		
Result : Irritation to eyes, reversing within 21 days	Aceto	one:		
Result : Irritation to eyes, reversing within 21 days	Speci	es	: Rabbit	
Method : OECD Test Guideline 405	Resul	t		
	Metho	bd	: OECD Test	Guideline 405
	Resp	iratory or skin sensi	tization	

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.



ersion 1.1	Revision Date: 10/26/2021		DS Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
Prod	uct:			
Test			Maximization Te	est
	es of exposure	:	Dermal	
Speci		:	Guinea pig	
Resu		:	Not a skin sens	itizor
Nesu	it.	•	NOT & SKIT SETS	11261.
Com	ponents:			
N,N-E	Dimethylacetamide:			
Route	es of exposure	:	Skin contact	
Speci	ies	:	Guinea pig	
Resu	lt	:	negative	
Flura	laner:			
Test ⁻		:	Maximization Te	est
	es of exposure		Dermal	
Speci			Guinea pig	
Resu		:	Not a skin sens	itizer.
Polv(oxv-1.2-ethanedivl).	α-ľ(te	trahvdro-2-furar	ıyl)methyl]-ω-hydroxy-:
Test			KeratinoSens a	
Metho		:	OECD Test Gui	
Resu			negative	
Rema		:	-	from similar materials
Test ⁻		:	Direct Peptide F	Reactivity Assay (DPRA)
Metho		:	OECD Test Gui	
Resu			positive	
Rema		:		from similar materials
Test ⁻	Туре	:	Dendritic cell ac	ctivation test
Metho		:	OECD Test Gui	
Resu			negative	
Rema		:		from similar materials
Aceto	one:			
Test ⁻	Τνηρ		Maximization Te	oct
	es of exposure	:	Skin contact	
Speci		:	Guinea pig	
Resu		:	negative	
Resu	it i	•	negative	
	n cell mutagenicity			
	lassified based on ava	ailable	information.	
Com	ponents:			
	Dimethylacetamide:		_	
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	terial reverse mutation assay (AMES)

Result: negative



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
Geno	otoxicity in vivo	Species: Rat Application Re	dent dominant lethal test (germ cell) (in vivo) oute: Inhalation D Test Guideline 478 ve
Flura	laner:		
Geno	otoxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: Mo Result: negati	ouse Lymphoma ve
		Test Type: Ch Result: negati	romosomal aberration ve
Genc	otoxicity in vivo	: Test Type: Mi Species: Mou Cell type: Bon Application Ro Result: negati	e marrow bute: Oral
Poly	(oxv-1.2-ethanedivl).	α-l(tetrahvdro-2-fur	anyl)methyl]-ω-hydroxy-:
-	otoxicity in vitro	: Test Type: Ba Method: OEC Result: negati	cterial reverse mutation assay (AMES) D Test Guideline 471
N,N-I	Diethyl-m-toluamide:		
	otoxicity in vitro		cterial reverse mutation assay (AMES) ve
Acet	one:		
Geno	otoxicity in vitro	: Test Type: In Result: negati	vitro mammalian cell gene mutation test ve
		Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
		Test Type: Ch Result: negati	romosome aberration test in vitro ve
Genc	otoxicity in vivo	cytogenetic as Species: Mou	se function

Carcinogenicity

Not classified based on available information.



ersion 1.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
<u>Com</u> r	oonents:		
Speci Applic	cation Route sure time	: Rat : inhalation (vap : 18 month(s) : negative	por)
Flura	laner:		
Carcir ment	nogenicity - Assess-	: No data availa	ble
N,N-C)iethyl-m-toluamide:		
	cation Route sure time	: Rat : Ingestion : 104 weeks : negative	
Aceto	one:		
	cation Route sure time	: Mouse : Skin contact : 424 days : negative	
IARC	Group 2B: Pc N,N-Dimethy	ossibly carcinogenic acetamide	to humans 127-19-5
OSHA		nt of this product pre st of regulated carci	esent at levels greater than or equal to 0.1% is nogens.
NTP			sent at levels greater than or equal to 0.1% is ed carcinogen by NTP.
-	oductive toxicity lamage the unborn child	ł.	
<u>Comp</u>	oonents:		
	Dimethylacetamide: s on fertility	Species: Rat	e-generation reproduction toxicity study oute: Inhalation /e
Effect	s on fetal development	Species: Rat	ubryo-fetal development oute: Inhalation e
Repro sessn	oductive toxicity - As- nent	: Clear evidence animal experir	e of adverse effects on development, based on nents.



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
	ralaner: cts on fertility	Species: Rat Application Ro General Toxic General Toxic Result: No effe neonatal effect	ity Parent: NOAEL: 50 mg/kg body weight ity F1: LOAEL: 100 mg/kg body weight ects on fertility., Postimplantation loss., Adverse
		Result: No effective development v	bute: Oral EL: 75 mg/kg body weight ects on fertility and early embryonic were detected. significant adverse effects were reported
Effe	cts on fetal development	Result: Embry	oute: Oral al Toxicity: NOAEL: 100 mg/kg body weight otoxic effects and adverse effects on the detected only at high maternally toxic doses,
		Result: Skelet	bit
			bit
	roductive toxicity - As-	: Suspected of	damaging the unborn child.
N,N	-Diethyl-m-toluamide:		
Effe	cts on fetal development	Species: Rat	nbryo-fetal development oute: Ingestion ve
Ace	tone:		
	cts on fertility	Species: Rat	e-generation reproduction toxicity study oute: Ingestion



Version 11.1	Revision Date: 10/26/2021		0S Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
			Result: negative	
Effe	ects on fetal development	:	Species: Rat	ro-fetal development : inhalation (vapor)
ST	OT-single exposure			
Not	classified based on availa	able	information.	
Col	mponents:			
-	etone: sessment		May aquaa drawa	inona ar dizzinona
ASS	sessment	•	May cause drows	iness or dizziness.
	OT-repeated exposure			
	t classified based on availa peated dose toxicity	able	information.	
-	-			
	mponents:			
	I-Dimethylacetamide: ecies		Rat	
	AEL	÷	90 mg/m ³	
	AEL	:	360 mg/m ³	
	olication Route	:	inhalation (vapor) 24 Months	
- 1				
	ralaner: ecies		Dog	
	AEL	÷	1 mg/kg	
App	olication Route	:	Oral	
	posure time	:	52 Weeks	
	get Organs marks	:	Liver No significant adv	rerse effects were reported
Spe	ecies	:	Juvenile dog	
LÒ	AEL	:	56 - 280 mg/kg	
	blication Route	÷	Oral 24 Weeks	
	posure time nptoms	:	Diarrhea	
Spe	ecies	:	Rat	
-	AEL	:	400 mg/kg	
	olication Route	:	Oral 90 Days	
	get Organs	:	Liver, thymus glar	nd
	ecies	:	Rat	
	AEL	:	500 mg/kg	
	olication Route	•	Dermal 90 Days	
		•		



Version 11.1	Revision Date: 10/26/2021		DS Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
Target Organs Remarks		:	Liver No significant ad	verse effects were reported
Expos Speci NOAE Applic	es EL EL cation Route sure time		Rat 900 mg/kg 1,700 mg/kg Ingestion 90 Days Rat 45 mg/l inhalation (vapor 8 Weeks)

Aspiration toxicity

Not classified based on available information.

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

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

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.



ersion 1.1	Revision Date: 10/26/2021		0S Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg/l 2 h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): > 500 mg/l 2 h
Toxici	ty to microorganisms	:	EC10: > 1,995 mg Exposure time: 30	
Flural	aner:			
	ty to fish	:	Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	0.08 mg/l Exposure time: 72 Method: OECD To	
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21 Method: OECD To Remarks: No toxic	d
	ty to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
Poly(oxy-1,2-ethanediyl), α-	[(te t	rahydro-2-furany)methyl]-ω-hydroxy-:
	ty to daphnia and other ic invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD To	
			EC10 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	



Version 11.1	Revision Date: 10/26/2021		0S Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
			Remarks: Based of	on data from similar materials
	I-DiethyI-m-toluamide: aricity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	hus mykiss (rainbow trout)): 97 mg/l 5 h est Guideline 203
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 75 mg/l 5 h
Tox plai	ricity to algae/aquatic hts	:	ErC50 (Selenastro Exposure time: 72 Method: OECD Te	
			NOEC (Selenastri Exposure time: 72 Method: OECD Te	
aqu	cicity to daphnia and other atic invertebrates (Chron- pxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 3.7 mg/l d
-	etone: ricity to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 5,540 mg/l s h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia pu Exposure time: 48	ulex (Water flea)): 8,800 mg/l 8 h
Tox plai	ricity to algae/aquatic nts	:	NOEC (Pseudokir mg/l Exposure time: 96	chneriella subcapitata (green algae)): 7,000 5 h
aqu	cicity to daphnia and other atic invertebrates (Chron- pxicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Тох	icity to microorganisms	:	EC50: 61,150 mg Exposure time: 30 Method: ISO 8192) min
Per	sistence and degradabili	ity		
<u>Co</u>	nponents:			
	I-Dimethylacetamide: degradability	:	Result: Not readily Biodegradation: 7 Exposure time: 28 Remarks: The 10	70 %

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



Version 11.1	Revision Date: 10/26/2021	-	DS Number: 2190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016			
Biod	degradability	:	: Result: Not readily biodegradable. Method: OECD Test Guideline 301F Remarks: Based on data from similar materials				
N.N	-Diethyl-m-toluamide:						
	Biodegradability		Result: Readily bi Biodegradation: { Exposure time: 28 Method: OECD To	33.8 %			
Ace	etone:						
	degradability	:	Result: Readily bi Biodegradation: S Exposure time: 28	91 %			
Bio	accumulative potential						
<u>Cor</u>	nponents:						
Flui	ralaner:						
Bioa	accumulation	:	Species: Zebrafis Bioconcentration Method: OECD Te	factor (BCF): 79.4			
	tition coefficient: n- anol/water	:	log Pow: 4.5				
Pol	y(oxy-1,2-ethanediyl), α-	-[(te	trahydro-2-furany)methyl]-ω-hydroxy-:			
	tition coefficient: n- anol/water	:	log Pow: < 4 Remarks: Calcula	tion			
N,N	-Diethyl-m-toluamide:						
	tition coefficient: n- anol/water	:	log Pow: 2.02				
	etone:						
	tition coefficient: n- anol/water	:	log Pow: -0.27().23			
Mol	oility in soil						
Cor	nponents:						
Flui	ralaner:						
	ribution among environ- ntal compartments	:	log Koc: 3.4				
	er adverse effects						
Cor	nponents:						
Flui	ralaner:						
Res	ults of PBT and vPvB	:	This substance is	not considered to be persistent, bioaccumu-			



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016
asses	ssment	lating and toxic	с (РВТ).
SECTION	13. DISPOSAL CONS	SIDERATIONS	
Wast	osal methods e from residues aminated packaging	: Empty contained handling site for Empty contained Do not pressur expose such or sources of ignit death.	accordance with local regulations. ers should be taken to an approved waste or recycling or disposal. ers retain residue and can be dangerous. rize, cut, weld, braze, solder, drill, grind, or ontainers to heat, flame, sparks, or other tion. They may explode and cause injury and/or e specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels	:	UN 1090 ACETONE SOLUTION 3 II 3
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 1090 Acetone solution 3 II Flammable Liquids 364 353
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	: : : : : : : : : : : : : : : : : : : :	UN 1090 ACETONE SOLUTION (Fluralaner) 3 II 3 F-E, S-D yes
Trenewert in built eccentine		Annay II of MADDOL 72/79 and the IDC Ca

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR UN/ID/NA number : UN 1090



Version	Revision Date:	SDS Number:	Date of last issue: 09/21/2021
11.1	10/26/2021	412190-00017	Date of first issue: 01/15/2016
Class Pack Labe ERG	ing group	: Acetone SOI : 3 : II : FLAMMABLI : 127 : yes(Fluralan	E LIQUID

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetone	67-64-1	5000	46728

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Flammable (gases, aerosols, liquids, or solids) Reproductive toxicity
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

N,N-Dimethylacetamide	127-19-5
Fluralaner	864731-61-3
Poly(oxy-1,2-ethanediyl), α-[(tetrahydro-2-furanyl)methyl]-ω-	31692-85-0
hydroxy-	
N,N-Diethyl-m-toluamide	134-62-3
Acetone	67-64-1

California Prop. 65

WARNING: This product can expose you to chemicals including N,N-Dimethylacetamide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

California Permissible Exposure Limits for Chemical Contaminants	07-04-1
N,N-Dimethylacetamide	127-19-5
Acetone	67-64-1

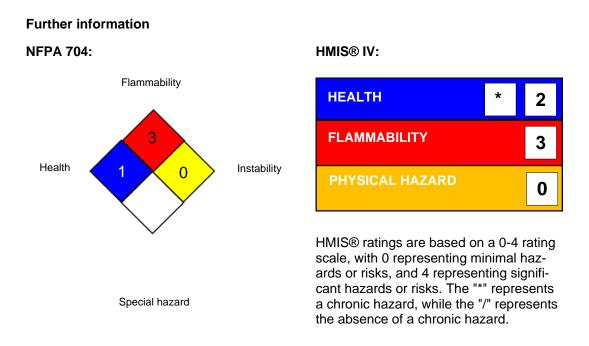
N,N-Dimethylacetamide	
-----------------------	--

127-19-5



Version 11.1	Revision Date: 10/26/2021	SDS Number: 412190-00017	Date of last issue: 09/21/2021 Date of first issue: 01/15/2016	
	Acetone		67-64-1	
The ingredients of this product are reported in the following inventories: AICS				
DSL		: not determined : not determined		
IECS	~	: not determined		
IECO		. not determined		

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH ACGIH BEI NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;



Version	Revision Date:	SDS Number:	Date of last issue: 09/21/2021
11.1	10/26/2021	412190-00017	Date of first issue: 01/15/2016

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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Revision Date : 10/26/2021

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.

US / Z8