according to the OSHA Hazard Communication Standard



Enversa™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/20/2024	800080101251	Date of first issue: 03/20/2024

Corteva Agriscience[™] encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name	:	Enversa™
Manufacturer or supplier's	deta	ails
COMPANY IDENTIFICATION	N	
Manufacturer/importer	:	CORTEVA AGRISCIENCE LLC 9330 ZIONSVILLE RD INDIANAPOLIS, IN, 46268-1053 UNITED STATES
Customer Information Number E-mail address	-	1-800-258-3033 customerinformation@corteva.com
Emergency telephone	:	INFOTRAC (CONTRACT 84224) +1 800-992-5994 or +1 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : End use herbicide product

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)			
Skin sensitization	:	Category 1	
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)	

GHS label elements

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Hazar	d pictograms		
Signa	l Word	: Warning	
Hazar	d Statements		se an allergic skin reaction. se respiratory irritation.
Preca	utionary Statements	P271 Use only	eathing mist or vapors. outdoors or in a well-ventilated area. nated work clothing must not be allowed out of otective gloves.
		P304 + P340 + and keep comf doctor if you fe P333 + P313 If attention.	F ON SKIN: Wash with plenty of soap and wate P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a POISON CENTER/ el unwell. f skin irritation or rash occurs: Get medical advic ntaminated clothing before reuse.
		Storage: P403 + P233 S tightly closed. P405 Store loc	Store in a well-ventilated place. Keep container ked up.
		Disposal: P501 Dispose posal plant.	of contents/ container to an approved waste dis

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
acetochlor (ISO)	34256-82-1	33
Glycerol	56-81-5	>= 3 - < 10
Urea	57-13-6	>= 3 - < 10
Distillates (petroleum), hydro- treated	64742-47-8	>= 1 - < 3
light; Kerosine — unspecified		
Homopolymer of Hexamethylene	28182-81-2	>= 1 - < 3
Diisocyanate		





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3,6-d	iazaoctanethylenedia	min	112-24-3	>= 0.3 - < 1
4,4'-methylenedi(cyclohexyl isocya- nate)		5124-30-1	>= 0.3 - < 1	
Balance			Not Assigned	> 30

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	Move person to fresh air; if effects occur, consult a physician.
In case of skin contact	:	Wash off with plenty of water.
In case of eye contact	:	Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.
If swallowed	:	No emergency medical treatment necessary.
Most important symptoms and effects, both acute and delayed	:	None known.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	During a fire, smoke may contain the original material in addi- tion to combustion products of varying composition which may be toxic and/or irritating.
		Combustion products may include and are not limited to: Carbon oxides Nitrogen oxides (NOx)

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				Hydrogen chlorid	e gas
	Specifi ods	c extinguishing meth-	:	so. Evacuate area. Use extinguishing cumstances and	ged containers from fire area if it is safe to do measures that are appropriate to local cir- the surrounding environment. o cool unopened containers.
	Furthe	r information	:	must not be disch Fire residues and	ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	•	l protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. 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. Prevent from entering into soil, ditches, sewers,underwater. See Section 12, Ecological Information.
Methods and materials for containment and cleaning up	:	Clean up remaining materials from spill with suitable absorb- ant. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over- pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). See Section 13, Disposal Considerations, for additional infor- mation.



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SECTION 7. HANDLING AND STORAGE

Local/Total ventilation	:	Use with local exhaust ventilation.
Advice on safe handling	:	 Avoid formation of aerosol. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapors/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the application area. Do not get on skin or clothing. Do not swallow. Avoid contact with skin and eyes. Avoid contact with eyes. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Conditions for safe storage	:	Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

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
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist -	10 mg/m3	OSHA P0



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	-				
		1	total dust)		1
			TWA (Mist - respirable fraction)	5 mg/m3	OSHA PO
Urea		57-13-6	TWA	10 mg/m3	US WEE
Distillates (petroleum), hydro treated light; Kerosine — un specified	light; Kerosine — un-	64742-47-8	TWA	100 ppm	Dow IHG
			STEL	125 ppm	Dow IHG
			TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
			TWA (Mist)	5 mg/m3	OSHA PO
			TWA (Mist)	5 mg/m3	OSHA Z-
	zaoctanethylenediamin	112-24-3	TWA	1 ppm	US WEE
4,4'-methylenedi(cyclohexyl isocyanate)		5124-30-1	TWA	0.005 ppm	ACGIH
			С	0.01 ppm 0.11 mg/m3	OSHA PO
Persor	nal protective equipmer	tions. nt			
	atory protection	 Respiratory p tial to exceed If there are n guidelines, w such as resp enced, or wh For most cor 	I the exposure li o applicable exp ear respiratory p iratory irritation of ere indicated by iditions, no resp ever, in dusty at	d be worn when there mit requirements or go posure limit requireme protection when adver or discomfort have be your risk assessment ratory protection shou mospheres, use an ap	uidelines. nts or se effects, en experi- t process. Ild be
Hand p	protection				
_	narks	Use gloves c preferred glo	hemically resista	ant to this motorial. Ex	

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	Eye pro	otection	:	If there is a poten	es (with side shields). tial for exposure to particles which could nfort, wear chemical goggles.
	Skin ar	nd body protection	:	Wear clean, body	-covering clothing.
SEC	CTION 9	. PHYSICAL AND CH	EMI		5
	Appear	rance	:	liquid	
	Color		:	beige	
	Odor		:	Sharp	
	Odor T	hreshold	:	No data available	9
	рН		:	8.4 (76.8 °F / 24. Concentration: 1	
	Melting	point/range	:	Not applicable	
	Freezir	ng point		No data available	9
	Boiling	point/boiling range	:	No data available	9
	Flash p	point	:	Method: closed c no flash to maxin	cup num temperature tested
	Evapor	ration rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable to	liquids
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	No data available	9
	Relativ	e vapor density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	1.0911 g/cm3 (68	8 °F / 20 °C)

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Solubility(ies) Water solubility		: No data availa	ble				
Autoignition temperature		: No data available					
Vi	scosity Viscosity, dynamic	: 121.8 cP (104 5 rpm 101.4 mPa.s (1 10 rpm	, ,				
Ex	plosive properties	: Not explosive					
O	xidizing properties	: No significant i	ncrease (>5C) in temperature.				

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	No decomposition if stored and applied as directed. Stable under normal conditions.
Possibility of hazardous reac- tions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition products	:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423
Acute inhalation toxicity	 LC50 (Rat, male and female): > 5.47 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436

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Acute	e dermal toxicity		female): > 2,000 mg/kg CD Test Guideline 402
Com	ponents:		
aceto	ochlor (ISO):		
	e oral toxicity		female): > 2,000 mg/kg ligns and symptoms of excessive exposure may s.
Acute	inhalation toxicity	serious adv	Prolonged excessive exposure to mist may cause erse effects, even death. ause irritation of upper respiratory tract (nose and
		LC50 (Rat): Exposure ti Test atmos	
Acute	e dermal toxicity		> 2,000 mg/kg t: The substance or mixture has no acute dermal
Glyce	erol:		
Acute	e oral toxicity	Remarks: E Central nerr Observatior	 > 11,500 mg/kg ixcessive exposure may cause: vous system effects. ns in humans include: od sugar levels.
Acute	inhalation toxicity	Exposure ti Test atmos Symptoms: rated atmos	ohere: dust/mist No deaths occurred following exposure to a satu-
Acute	e dermal toxicity	: LD50 (Guin	ea pig): >= 56,750 mg/kg
Urea:	:		
	oral toxicity	Remarks: M Signs and s Drowsiness	 > 8,000 mg/kg May cause central nervous system depression. symptoms of excessive exposure may include: nausea and vomiting.
Acute	e dermal toxicity	: LD50 (Rat):	> 8,200 mg/kg

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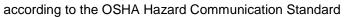


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Distil	lates (petroleum) by	/dro- tre	ated light: K	erosine — unspecified:	
	oral toxicity	: L	D50 (Rat): > 1ethod: Estim	5,000 mg/kg	
Acute	inhalation toxicity	E	C50 (Rat): > xposure time est atmosphe temarks: For	: 8 h	
Acute	dermal toxicity			> 5,000 mg/kg similar material(s):	
Homo	opolymer of Hexame	thylene	Diisocyanate	e:	
Acute	oral toxicity			nale): > 2,500 mg/kg 0 Test Guideline 423	
Acute	inhalation toxicity	E T N A	xposure time est atmosphe lethod: OECI		
Acute	dermal toxicity			le and female): > 2,000 mg/kg) Test Guideline 402	
3,6-di	iazaoctanethylenedi	amin:			
Acute	oral toxicity	: L	D50 (Rat, ma	le and female): 1,716 mg/kg	
Acute	e dermal toxicity	: L	LD50 (Rabbit): 1,465 mg/kg		
4,4'-n	nethylenedi(cyclohe	xyl isocy	/anate):		
Acute	oral toxicity			le and female): 18,200 mg/kg) Test Guideline 401	
Acute	inhalation toxicity	E T N A	LC50 (Rat, male and female): 456 mg/m3 Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short terr inhalation.		
Acute	dermal toxicity			le and female): > 7,000 mg/kg) Test Guideline 402	
Skin	corrosion/irritation				
Produ	uct:				
Speci		: R	abbit		

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Metho	bd		OECD Test Guid	eline 404
Resul	t	: 1	No skin irritation	
Comp	oonents:			
aceto	chlor (ISO):			
Resul	t	: :	Skin irritation	
Glyce	erol:			
Resul	t	: 1	No skin irritation	
Urea:				
Resul	t	: 1	No skin irritation	
Homo	opolymer of Hexame	thylene	Diisocyanate:	
Speci		-	Rabbit	
Metho			OECD Test Guideline 404	
3,6-di	azaoctanethylenedi	amin:		
Resul	t	: (Causes burns.	
4,4'-m	nethylenedi(cyclohe	xyl isoc	yanate):	
Speci	es	: 1	Rabbit	
Speci Metho	es od	:	Rabbit OECD Test Guid	eline 404
Speci	es od	:	Rabbit	eline 404
Specie Metho Resul	es od	: (Rabbit OECD Test Guid Skin irritation	eline 404
Specie Metho Resul	es od t us eye damage/eye	: (Rabbit OECD Test Guid Skin irritation	eline 404
Specie Metho Result Serior <u>Produ</u> Specie	es od t us eye damage/eye <u>uct:</u> es	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit	
Specie Metho Result Serio <u>Produ</u>	es od t us eye damage/eye <u>uct:</u> es	irritatio	Rabbit OECD Test Guid Skin irritation n	
Specie Metho Result Serio <u>Produ</u> Specie Metho	es od t us eye damage/eye <u>uct:</u> es	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit	
Specie Metho Result Serio <u>Produ</u> Specie Metho	es od t us eye damage/eye <u>uct:</u> es od <u>ponents:</u>	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit	
Specie Metho Result Serio Produ Specie Metho Comp	es od t us eye damage/eye <u>uct:</u> es od <u>ponents:</u> erol:	: : (: : : : : :	Rabbit OECD Test Guid Skin irritation n Rabbit	
Specie Metho Result Serior Produ Specie Metho Glyce	es bd t us eye damage/eye <u>uct:</u> es bd <u>ponents:</u> erol: t	: : (: : : : : :	Rabbit OECD Test Guid Skin irritation n Rabbit OECD Test Guid	
Specie Metho Result Serio Produ Specie Metho Glyce Result	es bd t us eye damage/eye <u>uct:</u> es bd <u>ponents:</u> erol: t	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit OECD Test Guid	
Specie Metho Result Serio Produ Specie Metho Glyce Result Urea: Result	es bod t us eye damage/eye <u>uct:</u> es bod <u>bonents:</u> erol: t	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit OECD Test Guid No eye irritation	
Specie Metho Result Serio Produ Specie Metho Glyce Result Urea: Result	es od t us eye damage/eye <u>uct:</u> es od <u>ponents:</u> t t t t t	irritatio	Rabbit OECD Test Guid Skin irritation n Rabbit OECD Test Guid No eye irritation	





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3,6-di	azaoctanethylenedi	amin:		
Resul	t	:	Corrosive	
4.4'-m	nethylenedi(cyclohe	xvl isc	cvanate):	
Specie			Rabbit	
Result		:	Eye irritation	
Metho		:	OECD Test Guid	leline 405
Respi	iratory or skin sensi	tizatio	n	
<u>Produ</u>	<u>uct:</u>			
Asses	sment	:	Does not cause	respiratory sensitization.
Comp	oonents:			
aceto	chlor (ISO):			
Asses	sment	:	May cause sens	itization by skin contact.
Rema	irks	:	Has caused aller	gic skin reactions when tested in guinea pig
Rema	irks	:	For respiratory s No relevant data	
Distill Rema		ydro- t :	reated light; Ker For similar mate	osine — unspecified: rial(s):
				ergić skin reactions when tested in guinea
Rema	ırks	:	For respiratory s No relevant data	
Homo	polymer of Hexame	thyler	e Diisocyanate:	
Test T	Гуре	:	Maximization Te	st
Test T Specie		:	Maximization Te Guinea pig	st
Specie Asses	es sment	:	Guinea pig May cause sens	itization by skin contact.
Specie	es sment	:	Guinea pig	itization by skin contact.
Specie Asses Metho	es sment	: : : amin:	Guinea pig May cause sens	itization by skin contact.
Specie Asses Metho 3,6-di	es ssment od	amin:	Guinea pig May cause sens OECD Test Guid	itization by skin contact.
Specie Asses Metho 3,6-di	es sment od azaoctanethylenedi ssment	amin:	Guinea pig May cause sens OECD Test Guid May cause sens Has caused aller Has demonstrate	itization by skin contact. Ieline 406
Specie Asses Metho 3,6-di Asses	es sment od azaoctanethylenedi ssment	amin:	Guinea pig May cause sens OECD Test Guid May cause sens Has caused aller Has demonstrate Has caused aller Individuals havin have an allergic	itization by skin contact. leline 406 rgic skin reactions in humans. ed the potential for contact allergy in mice. rgic skin reactions when tested in guinea pig- g an allergic skin reaction to this product ma skin reaction to similar material(s).
Specie Asses Metho 3,6-di Asses	es sment od azaoctanethylenedi ssment	amin:	Guinea pig May cause sens OECD Test Guid May cause sens Has caused aller Has demonstrate Has caused aller Individuals havin	itization by skin contact. leline 406 itization by skin contact. rgic skin reactions in humans. ed the potential for contact allergy in mice. rgic skin reactions when tested in guinea pig g an allergic skin reaction to this product ma skin reaction to similar material(s). rial(s) is/are: (EDA).
Specie Asses Metho 3,6-di Asses	es sment od azaoctanethylenedi ssment	: amin: :	Guinea pig May cause sens OECD Test Guid May cause sens Has caused aller Has demonstrate Has caused aller Individuals havin have an allergic The similar mate Ethylenediamine Diethylenetriami Piperazine.	itization by skin contact. leline 406 itization by skin contact. rgic skin reactions in humans. ed the potential for contact allergy in mice. rgic skin reactions when tested in guinea pig g an allergic skin reaction to this product ma skin reaction to similar material(s). rial(s) is/are: (EDA).



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Remarks		:	: For respiratory sensitization: No relevant data found.				
4,4'-m	ethylenedi(cyclohex	yl iso	cyanate):				
Test T	уре	:	Maximization T	est			
Specie		:	Guinea pig				
	sment	:		sitization by skin contact.			
Metho	d	:	OECD Test Gu	deline 406			
	s of exposure	:	Inhalation				
Specie		:	Guinea pig				
Asses	sment	:	May cause sen	sitization by inhalation.			
Germ	cell mutagenicity						
Comp	onents:						
aceto	chlor (ISO):						
	cell mutagenicity - sment	:		toxicity studies were negative in some cases other cases., Animal genetic toxicity studies			
			were predomina				
Glyce	rol:						
	cell mutagenicity -	:	In vitro genetic	toxicity studies were negative.			
Asses	sment						
Urea:							
	cell mutagenicity -	:		toxicity studies were negative in some cases			
Asses	sment		and positive in	other cases.			
Distill	ates (petroleum), hy	dro- t	reated light; Ke	rosine — unspecified:			
Germ	cell mutagenicity -	:		erial(s):, In vitro genetic toxicity studies were			
Asses	sment		negative., Anim	al genetic toxicity studies were negative.			
3,6-di	azaoctanethylenedia	min:					
Germ	cell mutagenicity -	:	In vitro genetic	toxicity studies were negative in some cases			
Asses			and positive in were negative.	other cases., Animal genetic toxicity studies			
Carcii	nogenicity						
<u>Comp</u>	onents:						
aceto	chlor (ISO):						
	ogenicity - Assess-	:		ncer in laboratory animals., Tumors were ob- evels which produced significant toxicity, thu			



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Glyce	vrol:		
-	nogenicity - Assess-	: For the major tory animals.	component(s):, Did not cause cancer in labora-
Urea:			
	nogenicity - Assess-	: Did not cause	cancer in laboratory animals.
Distil	lates (petroleum), hyc	Iro- treated light; K	erosine — unspecified:
Carcii ment	nogenicity - Assess-	: For similar ma animals.	terial(s):, Did not cause cancer in laboratory
3.6-di	azaoctanethylenedia	nin:	
	nogenicity - Assess-		cancer in laboratory animals.
IARC			sent at levels greater than or equal to 0.1% is r confirmed human carcinogen by IARC.
OSH/		ent of this product pre ist 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.
Repro	oductive toxicity		
Com	oonents:		
aceto	chlor (ISO):		
	ductive toxicity - As-	been seen onl the parent ani Has been toxid	nimal studies, effects on reproduction have y at doses that produced significant toxicity to nals. to the fetus in laboratory animals at doses other., Did not cause birth defects in laboratory
Glyce	erol:		
Repro sessn	ductive toxicity - As- nent	be due to alter high doses of been seen in a	effects seen in female animals are believed to ed nutritional states resulting from extremely glycerine given in the diet. Similar effects have animals fed synthetic diets. birth defects or any other fetal effects in labora-
Distil	lates (petroleum), hyc	Iro- treated light; K	erosine — unspecified:
	ductive toxicity - As-	: For similar ma reproduction.	terial(s):, In animal studies, did not interfere with terial(s):, Did not cause birth defects or any

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			other fetal effec	ts in laboratory animals.
3,6-di	azaoctanethylenedi	amin:		
Reproductive toxicity - As- : sessment			ethylenetetraan were believed te	nals that were fed exaggerated doses of Tri- nine(TETA) showed adverse fetal effects that to be associated with an observed copper de ures having no effect on the mother should on the fetus.
стот	-single exposure			
<u>Produ</u>	uct:			
-	t Organs ssment	:	Respiratory sys May cause resp	tem piratory irritation.
Comp	oonents:			
aceto	chlor (ISO):			
Asses	ssment	:	May cause resp	piratory irritation.
Glyce	erol:			
Asses	ssment	:	Evaluation of av an STOT-SE to	vailable data suggests that this material is n xicant.
Urea:				
Asses	ssment	:	Available data a specific target c	are inadequate to determine single exposure organ toxicity.
Distil	lates (petroleum), h	ydro- tı	reated light; Ke	rosine — unspecified:
Asses	sment	:	Evaluation of av an STOT-SE to	vailable data suggests that this material is n xicant.
Homo	polymer of Hexame	ethylen	e Diisocyanate	:
	s of exposure	:	Inhalation	-4
	t Organs ssment	:	Respiratory Tra May cause resp	ct piratory irritation.
3,6-di	azaoctanethylenedi	amin:		
Asses	ssment	:		osive. Material is not classified as a respirate r, upper respiratory tract irritation or corrosived.
4,4'-m	nethylenedi(cyclohe	xyl iso	cyanate):	
Asses	sment	:	May cause resp	piratory irritation.

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STO	F-repeated exposure		
Prod	uct:		
Assessment		: Evaluation of a an STOT-RE	available data suggests that this material is not oxicant.
Repe	ated dose toxicity		
Com	ponents:		
aceto	ochlor (ISO):		
Rema	arks	: In animals, eff gans: Kidney. Liver. Blood. Testes. Central nervor	ects have been reported on the following or- us system.
Glyce	erol:		
Rema	arks	: Excessive exp levels in blood	osure to glycerine may cause increased fat
Urea	:		
Rema	arks		ata found. lable data, repeated exposures are not antici- e significant adverse effects.
Distil	lates (petroleum), hy	dro- treated light; K	erosine — unspecified:
Rema		-	ects have been reported on the following or-
3,6-d	iazaoctanethylenedia	amin:	
Rema	•		ects have been reported on the following or-
Acni	ration toxicity		
Азріі			
Prod	uct:		

acetochlor (ISO):

Based on available information, aspiration hazard could not be determined.

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Glycerol:

Based on physical properties, not likely to be an aspiration hazard.

Urea:

Based on physical properties, not likely to be an aspiration hazard.

Distillates (petroleum), hydro- treated light; Kerosine - unspecified:

May be fatal if swallowed and enters airways.

3,6-diazaoctanethylenediamin:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

acetochlor (ISO):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.36 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 or Equivalent
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 8.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 or Equivalent
		EC50 (eastern oyster (Crassostrea virginica)): 4.2 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 202 or Equivalent
Toxicity to algae/aquatic plants	:	EyC50 (Pseudokirchneriella subcapitata (green algae)): 0.00027 mg/l End point: Growth inhibition (cell density reduction) Exposure time: 96 h Method: OECD Test Guideline 201 or Equivalent
		EyC50 (Lemna minor (duckweed)): 0.0027 mg/l End point: Growth inhibition (cell density reduction) Exposure time: 7 d Method: OECD 221.
M-Factor (Acute aquatic tox- icity)	:	1,000
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l



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a	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia magna (Water flea)): 0.0221 mg/l Exposure time: 21 d	
	M-Facto toxicity)	or (Chronic aquatic	:	100	
٦	Toxicity	to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h	
	Toxicity ganism:	r to soil dwelling or- s	:	LC50 (Eisenia fetida (earthworms)): 105.5 mg/kg Exposure time: 14 d	
	Toxicity isms	to terrestrial organ-	:	(LD50 between 50	l is slightly toxic to birds on an acute basis)1 and 2000 mg/kg)., Material is practically on a dietary basis (LC50 > 5000 ppm).
				oral LD50 (Colinus bodyweight.	s virginianus (Bobwhite quail)): 928 mg/kg
				dietary LC50 (Coli mg/kg diet. Exposure time: 5 d	nus virginianus (Bobwhite quail)): > 5620 d
				dietary LC50 (Anas platyrhynchos (Mallard duck)): > 562 mg/kg diet. Exposure time: 5 d	
				oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee Exposure time: 48 h	
				contact LD50 (Api Exposure time: 48	s mellifera (bees)): > 200 micrograms/bee h
(Glycero	ol:			
٢	Toxicity	r to fish	:	LC50 (Pimephales Exposure time: 96 Test Type: static t Method: Method N	est
		to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48 Test Type: static t Method: Method N	est
	Toxicity plants	to algae/aquatic	:	EC50 (Other): 2,9 End point: Growth Exposure time: 19 Test Type: static t Method: Method N	inhibition (cell density reduction) 2 h est
Ţ	Toxicity	to microorganisms	:	EC50 (activated s Exposure time: 3	ludge): > 1,000 mg/l h

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			Method: OECD 2	09 Test		
Urea						
	ity to fish	:	Exposure time: 48 Test Type: static			
			LC50 (Leuciscus Exposure time: 48	idus (Golden orfe)): > 10,000 mg/l 3 h		
	Toxicity to daphnia and other aquatic invertebrates		LC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent			
Toxic	ity to microorganisms	:	EC50 (Bacteria): > 5,000 mg/l Exposure time: 16 h			
Disti	llates (petroleum), hydr	·o- t	reated light; Kero	sine — unspecified:		
Toxic			EC50 (Daphnia magna (Water flea)): 400 mg/l Exposure time: 48 h			
Hom	opolymer of Hexamethy	yler	ne Diisocyanate:			
Toxic plant	tity to algae/aquatic s	:	EC50 (Desmodes mg/l Exposure time: 72 Test Type: static t Method: OECD T	test		
Ecot	oxicology Assessment					
	nic aquatic toxicity		This product has	no known ecotoxicological effects.		
3,6-d	iazaoctanethylenediam	nin:				
Toxic	ity to fish	:	acute basis (LC5) most sensitive sp	of aquatic systems to > pH 10 which may be		
			Exposure time: 96 Test Type: static			
	ity to daphnia and other tic invertebrates	:	Exposure time: 48 Test Type: static			

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	Toxicity to algae/aquatic plants		 EC50 (Pseudokirchneriella subcapitata (green alga End point: Growth rate inhibition Exposure time: 72 h Test Type: semi-static test Method: OECD Test Guideline 201 or Equivalent 			
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC (Daphnia magna (Water flea)): 1.9 mg/l End point: number of offspring Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211 or Equivalent			
Toxid	Toxicity to microorganisms		EC50 (Bacteria): 680 mg/l Exposure time: 16 h			
Pers	istence and degradabili	ity				
<u>Com</u>	ponents:					
	ochlor (ISO): ility in water	:	Test Type: Hydro Method: Stable	ysis		
			Test Type: Hydro Method: Stable	ysis		
			Test Type: Hydro Method: Stable	ysis		
Phot	odegradation	:	Rate constant: 5.8 Method: Estimate			
Glyc	erol:					
Biode	egradability	:	Result: Readily bi Remarks: Materia test(s) for ready b	l is readily biodegradable. Passes OECD		
ThO	D	:	1.22 kg/kg			
Urea	1:					
Biode	egradability	:	Material is ultimat	odegradable. I is expected to be readily biodegradable. ely biodegradable (reaches > 70% minerali- est(s) for inherent biodegradability).		
			aerobic Concentration: 40	0 mg/l		

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rsion)	Revision Date: 03/20/2024	SDS Number: 800080101251	Date of last issue: - Date of first issue: 03/20/2024
Biochemical Oxygen De- mand (BOD)		: 3 % Incubation tim Method: hUC0	
		41 % Incubation tim Method: hUC0	
		100% Incubation tim Method: hUC0	
Cherr (COD	nical Oxygen Demand	: 0.28 kg/kg	
ThOD)	: 2.13 kg/kg	
Photo	odegradation	Sensitizer: OF	: 2.00E-12 cm3/s
Distil	lates (petroleum), hvd	ro- treated light: K	erosine — unspecified:
2.00			
Biode	gradability	: aerobic Result: Not bio Biodegradatio Exposure time Method: OECI Remarks: Mat	odegradable n: 4 - 12 % e: 28 d D Test Guideline 301D or Equivalent erial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ty.
Biode	gradability	: aerobic Result: Not bio Biodegradatio Exposure time Method: OECI Remarks: Mat the environme biodegradabili	odegradable n: 4 - 12 % e: 28 d D Test Guideline 301D or Equivalent erial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ty.
ThOE	gradability	 aerobic Result: Not bio Biodegradation Exposure time Method: OECI Remarks: Mat the environme biodegradabili 10-day Windoo 3.48 kg/kg Test Type: Ha Sensitizer: OF 	odegradable n: 4 - 12 % e: 28 d D Test Guideline 301D or Equivalent erial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ty. w: Fail If-life (indirect photolysis) radicals : 1.394E-11 cm3/s
ThOE Photo	gradability	 aerobic Result: Not bio Biodegradation Exposure time Method: OECI Remarks: Mat the environme biodegradabili 10-day Windor 3.48 kg/kg Test Type: Ha Sensitizer: OF Rate constant Method: Estim 	odegradable n: 4 - 12 % e: 28 d D Test Guideline 301D or Equivalent erial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ty. w: Fail If-life (indirect photolysis) I radicals : 1.394E-11 cm3/s
ThOE Photo 3,6-di	egradability	 aerobic Result: Not bio Biodegradation Exposure time Method: OECI Remarks: Mat the environme biodegradabili 10-day Windor 3.48 kg/kg Test Type: Ha Sensitizer: OF Rate constant Method: Estim 	odegradable n: 4 - 12 % e: 28 d D Test Guideline 301D or Equivalent erial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ty. w: Fail If-life (indirect photolysis) I radicals : 1.394E-11 cm3/s

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sion	Revision Date: 03/20/2024	-	OS Number: 0080101251	Date of last issue: - Date of first issue: 03/20/2024
			Exposure time: 2 Method: OECD Remarks: 10-da	Test Guideline 301D or Equivalent
	emical Oxygen De- (BOD)	:	5.000 % Incubation time:	5 d
			2.5 - 11 % Incubation time:	20 d
Chem (COD	ical Oxygen Demand)	:	1.94 kg/kg	
ThOD)	:	3.40 kg/kg	
Bioac	cumulative potential			
Comp	oonents:			
	chlor (ISO):			
Bioac	cumulation	:	Bioconcentratior	n factor (BCF): 20
	on coefficient: n- ol/water	:		
			log Pow: 4.14 Method: Measur Remarks: Bioco Pow < 3).	ed ncentration potential is low (BCF < 100 or Log
Glyce	erol:			
Partiti	on coefficient: n- ol/water	:	log Pow: -1.76 (Method: Measur Remarks: Bioco Pow < 3).	
Urea:				
Bioac	cumulation	:	Species: Cyprine Bioconcentration	
	on coefficient: n- ol/water	:		77 °F / 25 °C) Test Guideline 107 or Equivalent ncentration potential is low (BCF < 100 or Log
Distill	lates (petroleum), hyd	ro- t	reated light; Ker	osine — unspecified:
	cumulation	:	Species: Fish	n factor (BCF): 310
	on coefficient: n-		log Pow: 3.3 - 6	

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octanol/wate	9r	Remarks: Bio	Method: estimated Remarks: Bioconcentration potential is moderate (BCF be- tween 100 and 3000 or Log Pow between 3 and 5).			
Homopolyn	ner of Hexametl	nylene Diisocyana	te:			
Partition coe octanol/wate		: log Pow: 9.81	(68 °F / 20 °C)			
3,6-diazaoc	tanethylenedia	nin:				
Partition coe octanol/wate	efficient: n-	: log Pow: -2.6 Method: Estir				
Balance:						
Partition coe octanol/wate		: Remarks: No	relevant data found.			
Mobility in	soil					
<u>Componen</u>	<u>:s:</u>					
acetochlor	(ISO):					
Distribution mental com	among environ- partments	: Koc: 156 Method: Estir Remarks: Pot 150 and 500)	ential for mobility in soil is medium (Koc betwee			
Glycerol:						
-	among environ- partments	tween 0 and 5 Given its very	ential for mobility in soil is very high (Koc be- 50). ' low Henry's constant, volatilization from natura er or moist soil is not expected to be an im-			
Urea:						
Distribution mental com	among environ- partments	tween 0 and 5 Given its very	ential for mobility in soil is very high (Koc be- 50). ' low Henry's constant, volatilization from natura er or moist soil is not expected to be an im-			
Distillates (petroleum), hyc	Iro- treated light; k	Kerosine — unspecified:			
	among environ- partments	: Koc: > 5000 Method: Estir				



rsion	Revision Date: 03/20/2024		S Number: 0080101251	Date of last issue: - Date of first issue: 03/20/2024
			Remarks: Expect 5000).	eted to be relatively immobile in soil (Koc >
3,6-di	azaoctanethylenedian	nin:		
	oution among environ- al compartments	:	Koc: 4.1 - 310 Method: Estimat Remarks: Poten tween 0 and 50)	tial for mobility in soil is very high (Koc be-
Balan	ce:			
Distrib	oution among environ- al compartments	:	Remarks: No rel	evant data found.
Other	adverse effects			
<u>Comp</u>	oonents:			
aceto	chlor (ISO):			
	ts of PBT and vPvB sment	:	lating and toxic (s not considered to be persistent, bioaccumu- PBT). This substance is not considered to be and very bioaccumulating (vPvB).
Ozone	e-Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.
Glyce	erol:			
	ts of PBT and vPvB sment	:	lating and toxic (s not considered to be persistent, bioaccumu- PBT). This substance is readily biodegrada- ot considered persistent or very persistent (P
Ozone	e-Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.
Urea:				
	ts of PBT and vPvB sment	:	This substance cumulation and	nas not been assessed for persistence, bioac- toxicity (PBT).
Ozone	e-Depletion Potential	:	Remarks: This s	date: 02/16/2012 KJB) ubstance is not on the Montreal Protocol list at deplete the ozone layer.
Distill	ates (petroleum), hyd	ro- t	reated light; Ker	osine — unspecified:
Resul	ts of PBT and vPvB sment	:	-	has not been assessed for persistence, bioac-
Ozone	e-Depletion Potential	:		ubstance is not on the Montreal Protocol list at deplete the ozone layer.



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3,	6-diazaoctanethylenedian	nin:		
	esults of PBT and vPvB ssessment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT). This substance is not considered to be d very bioaccumulating (vPvB).
0	Ozone-Depletion Potential		Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.	
В	alance:			
	esults of PBT and vPvB ssessment	:	This substance ha	as not been assessed for persistence, bioac- xicity (PBT).
0	zone-Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or other- wise contaminated. It is the responsibility of the waste gener- ator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica- tion and disposal methods in compliance with applicable regu- lations. If the material as supplied becomes a waste, follow all appli-
	cable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE N.O.S. (Acetochlor)	Э,
Class	9	
Packing group	III	
Labels	9	
Environmentally hazardous	yes	
IATA-DGR UN/ID No. Proper shipping name	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Acetochlor)	
Class	9	

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Label Packi aircra Packi	ng instruction (cargo	: :	III Miscellaneous 964 964	
UN n	G-Code umber er shipping name	:	UN 3082 ENVIRONMENTA N.O.S. (Acetochlor)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Label EmS	ng group s Code le pollutant	: : : : : : : : : : : : : : : : : : : :	9 III 9 F-A, S-F yes(Acetochlor) Stowage category	/ A

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 Road

Not regulated as a dangerous good

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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

SARA 311/312 Hazards	:	Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure)
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

Glycerol56-81-5Distillates (petroleum), hydro- treated light; Kerosine — un-64742-47-8

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specified

California Prop. 65

WARNING: This product can expose you to chemicals including acetochlor (ISO), Distillates (petroleum), hydro- treated light; Kerosine — unspecified, sulphuric acid, which is/are known to the State of California to cause cancer, and

toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-775

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
Dow IHG	:	Dow Industrial Hygiene Guideline
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
Dow IHG / STEL	:	Short term exposure limit
Dow IHG / TWA	:	Time weighted average
OSHA P0 / TWA	:	8-hour time weighted average

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OSHA	A P0 / C A Z-1 / TWA /EEL / TWA	: Ceiling limit : 8-hour time v : 8-hr TWA	veighted average

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations. CFR - Code of Federal Regulations. IARC - International Agency for Research on Cancer. IATA-DGR - International Air Transport Association Dangerous Goods Regulations. OSHA - Occupational Safety and Health Administration. RCRA - Resource Conservation and Recovery Act. RQ - Reportable Quantity. SARA - Superfund Amendments and Reauthorization Act. TSCA - Toxic Substances Control Act.

Revision Date : 03/20/2024

Product code: GF-5223

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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