

## STINGER™

Version	Revision Date:	SDS Number:	Date of last issue: 01/19/2022
1.1	02/17/2022	800080003174	Date of first issue: 01/19/2022

Corteva Agriscience<sup>™</sup> 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 : STINGER™

Manufacturer or supplier's details

### **COMPANY IDENTIFICATION**

Manufacturer/importer	93 IN	ORTEVA AGRISCIENCE LLC 330 ZIONSVILLE RD IDIANAPOLIS, IN, 46268-1053 NITED STATES
Customer Information	: 80	00-992-5994
E-mail address	: cu	stomerinformation@corteva.com
Emergency telephone	: IN	IFOTRAC (CONTRACT 84224).
	80	0-992-5994 or 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)				
Flammable liquids	:	Category 3		
GHS label elements Hazard pictograms	:			
Signal Word	:	Warning		
Hazard Statements	:	H226 Flammable liquid and vapor.		

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Precautionary Statements		No smoking. P233 Keep con P240 Ground/b P241 Use explo ment. P242 Use only P243 Take prec	<ul> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfaces.</li> <li>No smoking.</li> <li>P233 Keep container tightly closed.</li> <li>P240 Ground/bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-</li> </ul>				
		all contaminate P370 + P378 In	P353 IF ON SKIN (or hair): Take off immediately d clothing. Rinse skin with water/ shower. case of fire: Use dry sand, dry chemical or alco- am to extinguish.				
		<b>Storage:</b> P403 + P235 St	tore in a well-ventilated place. Keep cool.				
		<b>Disposal:</b> P501 Dispose c posal plant.	of contents/ container to an approved waste dis-				
Othe	r hazards						

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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### Components

CAS-No.	Concentration (% w/w)
57754-85-5	40.9
67-63-0	5
69029-39-6	>= 1 - < 3
Not Assigned	> 50
	57754-85-5 67-63-0 69029-39-6

Actual concentration is withheld as a trade secret

## **SECTION 4. FIRST AID MEASURES**

If inhaled	: Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
	If breathing is difficult, oxygen should be administered by qual- ified personnel.
In case of skin contact	<ul> <li>Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.</li> </ul>
	Suitable emergency safety shower facility should be available



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In case of eye contact		20 minutes. Re minutes, then center or docto	Hold eyes open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in			
Most and e delay		<ul><li>No emergency medical treatment necessary.</li><li>None known.</li></ul>				
Protection of first-aiders		and use the re sistant gloves, If potential for	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	: Maintain adeq May cause ast chodilators, ex may be of help Hemodialysis been ingested Consider hem or coma unres >400 - 500 mg ed., 2002; King No specific an Treatment of e symptoms and Have the Safe tainer or label doctor, or goin	uate ventilation and oxygenation of the patient. hma-like (reactive airways) symptoms. Bron- pectorants, antitussives and corticosteroids may be of benefit if substantial amounts have and the patient is showing signs of intoxication. odialysis for patients with persistent hypotension ponsive to standard therapy (isopropanol levels /dl). (Goldfrank, Toxicological Emergencies 7th g, JAMA, 1970, 211:1855).			

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media		Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Do not use direct water stream. High volume water jet
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health. Vapors may form explosive mixtures with air. Do not allow run-off from firefighting to enter drains or water courses. Flash back possible over considerable distance.
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:



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			Nitrogen oxides (I Hydrogen chloride Carbon oxides		
•	Specific extinguishing meth- ods		Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers.		
Fur	Further information		Use water spray to cool fire exposed containers and fire af- fected zone until fire is out and danger of reignition has passed. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.		
	Special protective equipment for fire-fighters		Wear self-contain essary.	ed breathing apparatus for firefighting if nec-	

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Beware of vapors accumulating to form explosive concentra- tions. Vapors can accumulate in low areas. Remove all sources of ignition. 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-



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		Wipe up with at Non-sparking to Contain spillage sorbent materia miculite) and pl / national regula Suppress (knoo jet.	of the container. boots should be used. e, and then collect with non-combustible ab- al, (e.g. sand, earth, diatomaceous earth, ver- ace in container for disposal according to local ations (see section 13). k down) gases/vapors/mists with a water spray , Disposal Considerations, for additional infor-

### SECTION 7. HANDLING AND STORAGE

Local/Total ventilation	:	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.
Advice on safe handling	:	Avoid formation of aerosol. Non-sparking tools should be used. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Do not breathe vapors/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety
		practice. Smoking, eating and drinking should be prohibited in the ap- plication area. Keep container tightly closed.
		Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges.
		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.
		No smoking. Containers which are opened must be carefully resealed and
		kept upright to prevent leakage.
		Keep in properly labeled containers.
		Keep tightly closed.
Materials to avoid	:	Store in accordance with the particular national regulations. Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids
		Self-heating substances and mixtures
		Substances and mixtures which in contact with water emit flammable gases Explosives Gases
Packaging material	:	Unsuitable material: None known.



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### 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
propan-2-ol	67-63-0	TWA	150 ppm	Dow IHG
		STEL	300 ppm	Dow IHG
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	OSHA Z-1
			980 mg/m3	
Alkylphenol alkoxylate	69029-39-6	TWA	2 mg/m3	Dow IHG

### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures :	Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some opera- tions.
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### Personal protective equipment

i oroonar protootivo oquipinont	
Respiratory protection :	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respi- rator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be exceeded, use an approved positive- pressure self-contained breathing apparatus or positive- pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self- contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.
Hand protection	
Remarks :	Use gloves chemically resistant to this material when pro- longed or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Oth-



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	protection and body protection	:	(cut/puncture prot tial body reactions tions/specification Use safety glasse If exposure cause	ch may be handled, physical requirements tection, dexterity, thermal protection), poten- is to glove materials, as well as the instruc- is provided by the glove supplier. es (with side shields). es eye discomfort, use a full-face respirator. -covering clothing.
SECTION	9. PHYSICAL AND CH	EMIC		S
Аррє	earance	:	Liquid.	
Color	r	:	Red to brown	
Odor		:	Sweet	
Odor	Threshold	:	No data available	9
pН		:	7.5 - 8.0	
Melti	ng point/range	:	Not applicable	
Free	zing point		No data available	e
Boilir	ng point/boiling range	:	212 °F / 100 °C	
Flash	n point	:	117.0 °F / 47.2 °(	с
			Method: closed c	cup
Evap	ooration rate	:	No data available	9
Flam	mability (solid, gas)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	e
	er explosion limit / Lower nability limit	:	No data available	e
Vapo	or pressure	:	31.326 hPa (68 °	°F / 20 °C)
Relat	tive vapor density	:	1.06 (68 °F / 20 °	°C)
Dens	sity	:	1.161 g/cm3 (68 Method: Calculat	
	bility(ies) /ater solubility	:	Miscible with wat	ter
	tion coefficient: n- nol/water	:	No data available	Э.
	ignition temperature	:	No data available	9



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	Explosi	ty osity, dynamic ve properties ng properties	:	7 cP No data available No data available	
SEC		0. STABILITY AND RE			· 
		ity al stability lity of hazardous reac-	:	No decompositio Stable under nor Stable under reco No hazards to be Vapors may form	a reactivity hazard. n if stored and applied as directed. mal conditions. ommended storage conditions. e specially mentioned. explosive mixture with air. ve dust-air mixture.
	Incomp	ons to avoid atible materials ous decomposition s	:	and the presence	roducts depend upon temperature, air supply of other materials. roducts can include and are not limited to: NOx)

## SECTION 11. TOXICOLOGICAL INFORMATION

Product: Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 3.0 mg/l Exposure time: 4 h Test atmosphere: Aerosol Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Maximum attainable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg
Components:		

# Clopyralid monoethanolamine salt:

		Sult.
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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		tion toxicity	nt: The substance or mixture has no acute inhala- , Maximum attainable concentration.
Acute	dermal toxicity	Symptoms	bit): > 2,000 mg/kg : No deaths occurred at this concentration. ht: The substance or mixture has no acute derma
propa	an-2-ol:		
Acute	oral toxicity	: LD50 (Rat) Method: Ol	: 5,840 mg/kg ECD 401 or equivalent
Acute	inhalation toxicity	Exposure t	male and female): > 10000 ppm ime: 6 h phere: vapor
Acute	dermal toxicity	: LD50 (Rab	bit): > 12,800 mg/kg
Alkyl	phenol alkoxylate:		
	oral toxicity	: LD50 (Rat)	: > 5,000 mg/kg
Acute	dermal toxicity	: LD50 (Rab	bit, male and female): > 2,000 mg/kg
Skin	corrosion/irritation		
<u>Produ</u>	uct:		
Speci Resul		: Rabbit : No skin irrit	tation
<u>Comp</u>	oonents:		
propa	an-2-ol:		
Speci Resul		: Rabbit : No skin irrit	tation
Alkylj	phenol alkoxylate:		
Speci Resul		: Rabbit : No skin irrit	tation
Serio	us eye damage/eye	irritation	
<u>Produ</u>	uct:		
Speci		: Rabbit	
Resul	t	: No eye irrit	ation
<u>Comp</u>	oonents:		
	ralid monoethanol/		
Speci Resul		: Rabbit : No eye irrit	ation



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propa	an-2-ol:		
Speci Resul		: Rabbit : Eye irritatior	1
Alkylı	phenol alkoxylate:		
Speci Resul		: Rabbit : No eye irrita	tion
Respi	iratory or skin sensi	tization	
<u>Produ</u>			
Speci Asses	es ssment	: Guinea pig : Does not ca	use skin sensitization.
<u>Comr</u>	oonents:		
	ralid monoethanola/	mine salt:	
Speci Asses	es ssment	: Mouse : Does not ca	use skin sensitization.
propa	an-2-ol:		
Speci Asses	es ssment	: Guinea pig : Does not ca	use skin sensitization.
	phenol alkoxylate:		
Speci Asses	es ssment	: Guinea pig : Does not ca	use skin sensitization.
Germ	cell mutagenicity		
<u>Comr</u>	oonents:		
Clopy	/ralid monoethanola	mine salt:	
	cell mutagenicity - ssment		etic toxicity studies were negative., Animal genetic ies were negative.
propa	an-2-ol:		
	cell mutagenicity - ssment		etic toxicity studies were negative., Animal genetic ies were negative.
Alkylı	phenol alkoxylate:		
	cell mutagenicity -	: In vitro gene	etic toxicity studies were negative.



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Carci	nogenicity		
Comp	onents:		
СІору	ralid monoethanola	amine salt:	
Carcir ment	ogenicity - Assess-	: Similar formu mals.	lations did not cause cancer in laboratory ani-
	<b>n-2-ol:</b> logenicity - Assess-	: Did not cause	e cancer in laboratory animals.
IARC			esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.
OSHA		nent of this product p s list of regulated carc	resent at levels greater than or equal to 0.1% is inogens.
NTP			esent at levels greater than or equal to 0.1% is atted carcinogen by NTP.
Repro	ductive toxicity		
<u>Comp</u>	onents:		
Clopy	ralid monoethanola	amine salt:	
Repro sessm	ductive toxicity - As- ient	production. Clopyralid ca greatly exagg mothers. No l	dies, active ingredient did not interfere with re- used birth defects in test animals, but only at perated doses that were severely toxic to the birth defects were observed in animals given doses several times greater than those expected I exposure.
propa	n-2-ol:		
	ductive toxicity - As-	mal studies, c Isopropanol h	dies, did not interfere with reproduction., In ani- did not interfere with fertility. has been toxic to the fetus in laboratory animals to the mother.
Alkylį			
Repro sessm	ohenol alkoxylate:		
	ductive toxicity - As-	mal studies, o	dies, did not interfere with reproduction., In ani- did not interfere with fertility. a birth defects or any other fetal effects in labora
STOT	ductive toxicity - As-	mal studies, o Did not cause	did not interfere with fertility.
STOT <u>Produ</u>	ductive toxicity - As- nent -single exposure	mal studies, o Did not cause	did not interfere with fertility.



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<u>Com</u> p	oonents:		
	ralid monoethanol	amine salt:	
	ssment		available data suggests that this material is no toxicant.
propa	an-2-ol:		
	s of exposure	: Ingestion	
	t Organs	: Central nervo	
Asses	ssment	: May cause dr	owsiness or dizziness.
Alkylj	phenol alkoxylate:		
Asses	ssment	: Evaluation of an STOT-SE	available data suggests that this material is no toxicant.
Repe	ated dose toxicity		
Comp	oonents:		
Сіору	ralid monoethanol	amine salt:	
Rema	ırks		ilable data, repeated exposures are not antici- e additional significant adverse effects.
propa	an-2-ol:		
Rema	ırks	: In animals, eff	fects have been reported on the following or-
		gans:	
		Kidney. Liver.	
			s have been observed in male rats. These effe
		are believed t	o be species specific and unlikely to occur in
		humans.	
		Lethargy.	in animals include:
۵lkvli	phenol alkoxylate:		
Rema	•	: In animals, eff	fects have been reported on the following or-
		gans:	
		Kidney.	
		Liver.	
Aspir	ation toxicity		
<u>Produ</u>	uct:		
Based	d on available inform	ation, aspiration hazar	d could not be determined.
•			
Comp	<u>oonents:</u>		

# Clopyralid monoethanolamine salt:

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



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#### propan-2-ol:

Aspiration into the lungs may occur during ingestion or vomiting, resulting in rapid absorption and injury to other body systems.

### Alkylphenol alkoxylate:

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

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Components:

### Clopyralid monoethanolamine salt:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent			
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent			
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 30 mg/l Exposure time: 72 h			
		ErC50 (Myriophyllum spicatum): > 3 mg/l Exposure time: 14 d Remarks: For similar material(s):			
		NOEC (Myriophyllum spicatum): 0.0089 mg/l Exposure time: 14 d Remarks: For similar material(s):			
M-Factor (Chronic aquatic toxicity)	:	10			
Toxicity to terrestrial organ- isms	:	oral LD50 (Anas platyrhynchos (Mallard duck)): 1465 - 2000 mg/kg bodyweight. Exposure time: 14 d Remarks: For similar active ingredient(s).			
		dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5000 mg/kg diet. Exposure time: 8 d Remarks: For similar active ingredient(s).			
		contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee Exposure time: 48 d Remarks: For similar active ingredient(s).			
		oral LD50 (Apis mellifera (bees)): > 98.1 micrograms/bee			
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				Exposure time: 48 Remarks: For simi	d ilar active ingredient(s).		
	Ecotox	icology Assessment					
	Acute aquatic toxicity		:	Toxic to aquatic lif	e.		
	Chronic aquatic toxicity		:	Very toxic to aqua	tic life with long lasting effects.		
	propan	i-2-ol:					
	Toxicity to fish			LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/ Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 or Equivalent			
	Toxicity to daphnia and other aquatic invertebrates			LC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent			
	Toxicity plants	v to algae/aquatic					
				ErC50 (alga Scen End point: Growth Exposure time: 72 Test Type: static te	h		
i		to daphnia and other invertebrates (Chron- ty)		NOEC (Daphnia n Exposure time: 21 Test Type: semi-s			
	Toxicity	to microorganisms	:	EC50 (activated sl	ludge): > 1,000 mg/l		
	Alkvipi	nenol alkoxylate:					
		v to fish		Exposure time: 96 Test Type: static to			
				Exposure time: 96 Test Type: static to			
		v to daphnia and other invertebrates		Exposure time: 48	agna (Water flea)): 10.5 mg/l h est Guideline 202 or Equivalent		
	Toxicity isms	v to terrestrial organ-		dietary LC50 (Apis Exposure time: 2 c	s mellifera (bees)): > 105 micrograms/bee d		



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			contact LD50 (/ Exposure time:	Apis mellifera (bees)): > 100 micrograms/bee 2 d
				ffects Level (NOEL) (Colinus virginianus l)): 2,250 mg/kg
			oral LD50 (Coli mg/kg	nus virginianus (Bobwhite quail)): > 2,250
	<b>exicology Assessmer</b> nic aquatic toxicity	nt :	Toxic to aquation	c life with long lasting effects.
Persi	stence and degradab	ility		
Com	oonents:			
Clopy	/ralid monoethanolan	nine s	salt:	
Biode	gradability	:	Result: Not bio Remarks: For s Clopyralid.	degradable. imilar active ingredient(s).
propa	an-2-ol:			
Biode	gradability	:	Biodegradation Exposure time: Method: OECD	
			Biodegradation Exposure time: Method: Other Remarks: 10-da	5 d
	emical Oxygen De- (BOD)	:	20 - 72 % Incubation time	: 5 d
			78 - 86 % Incubation time	: 20 d
Chem (COD	iical Oxygen Demand )	:	2.09 kg/kg Method: Estima	ated.
ThOD	)	:	2.40 kg/kg Method: Estima	ated.
Photo	degradation	:	Sensitizer: OH	7.26E-12 cm3/s
	<b>phenol alkoxylate:</b> gradability	:	Result: Not bio	degradable.



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			is below detectab Based on stringer be considered as sults do not neces	radation under aerobic laboratory conditions le limits (BOD20 or BOD28/ThOD < 2.5%). Int OECD test guidelines, this material cannot readily biodegradable; however, these re- ssarily mean that the material is not biode- nvironmental conditions.		
Cherr (COD	nical Oxygen Demand	:	1.78 kg/kg			
ThOE		:	2.35 kg/kg			
Bioad	ccumulative potential					
<u>Com</u>	ponents:					
	yralid monoethanolam	ine				
	ion coefficient: n- ol/water	:	Remarks: For sim Clopyralid.	ilar active ingredient(s).		
				potential is low (BCF < 100 or Log Pow < 3).		
propa	an-2-ol:					
	ion coefficient: n- ol/water	:	Remarks: Biocon Pow < 3).	centration potential is low (BCF < 100 or Log		
			log Pow: 0.05 Method: Measure	d		
Alkyl	phenol alkoxylate:					
	ion coefficient: n- ol/water	:	Remarks: No biod relatively high wa May foam in wate			
Balar	nce:					
	ion coefficient: n- ol/water	:	Remarks: No rele	vant data found.		
Mobi	lity in soil					
<u>Com</u>	ponents:					
Clopy	yralid monoethanolam	ine				
	bution among environ- al compartments	:	Clopyralid.	ilar active ingredient(s). lity in soil is very high (Koc between 0 and		
propa	an-2-ol:					
Distril	bution among environ- al compartments	:	Remarks: Potenti tween 0 and 50).	al for mobility in soil is very high (Koc be-		
			Koc: 1.1 Method: Estimate	d.		





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D		<b>e:</b> ition among environ- compartments	:	Remarks: No rele	vant data found.		
0	Other adverse effects						
<u>C</u>	ompo	onents:					
С	lopyr	alid monoethanolam	ine				
	Results of PBT and vPvB assessment		:	This substance is not considered to be persistent, bioaccum lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).			
C	)zone-	Depletion Potential	:	Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.			
р	ropan	-2-ol:					
	lesults ssess	of PBT and vPvB ment	:	lating and toxic (P	not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB).		
0	)zone-	Depletion Potential	:		bstance is not on the Montreal Protocol list t deplete the ozone layer.		
Α	lkylpl	nenol alkoxylate:					
	esults ssess	of PBT and vPvB ment	:	This substance ha	as not been assessed for persistence, bioac- xicity (PBT).		
0	)zone-	Depletion Potential	:	Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.			
В	alanc	e:					
	esults ssess	of PBT and vPvB ment	:	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 me	ethods
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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 otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identifica-



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	lations. If the material	sal methods in compliance with applicable reg as supplied becomes a waste, follow all appli- , national and local laws.
14. TRANSPORT INF	ORMATION	
ational Regulations		
DG		
imber	: UN 1993	
r shipping name	(Isopropanol)	LIQUID, N.O.S.
ng group S	: III : 3	
DGR		
No.	: UN 1993	
r shipping name	: Flammable liq (Isopropanol)	
		quide
ng instruction (cargo	: 366	4uius
,	- : 355	
-Code		
Imber	: UN 1993	
r shipping name	(Isopropanol)	LIQUID, N.O.S.
e pollutant	: no	
rks	: Stowage cate	gory A
-	-	RPOL 73/78 and the IBC Code
	s supplied.	
stic regulation		
R		
/NA number	: NA 1993	
r shipping name	(Isopropanol)	
	: CBL	
1000	. 120	
	02/17/2022 14. TRANSPORT INF ational Regulations DG mber r shipping name ng group DGR No. r shipping name ng group instruction (cargo t) r shipping name ng instruction (passen craft) -Code mber r shipping name ng group code a pollutant rks port in bulk accordir pplicable for product a stic regulation R	02/17/2022       80008003174         tion and disponsitions.       If the material cable regional         14. TRANSPORT INFORMATION         ational Regulations         DG         mber       UN 1993         r shipping name       FLAMMABLE (Isopropanol)         is 3         pg group       III         is 5       3         DGR       III         No.       UN 1993         r shipping name       Flammable liq (Isopropanol)         is 3       III         is 5       III         is 6       UN 1993         r shipping name       Flammable Liq (Isopropanol)         is 3       III         is 6       III         is 7       III         is 8       Isopropanol)         is 3       III         is 6       Isopropanol)         is 3       Isopropanol)         is 4       Isopropanol)



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### Further information

For US Domestic transport, according to 49 CFR 173.150 f (1), A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassed as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable., This product is only classified in containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, the product must be shipped as a flammable 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**

SARA 311/312 Hazards	:	Flammable (gase	s, aerosols, liquids, or	solids)
SARA 313	:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
		propan-2-ol	67-63-0	>= 5 - < 10 %

#### **US State Regulations**

#### Pennsylvania Right To Know

propan-2-ol

67-63-0

#### California Prop. 65

WARNING: This product can expose you to chemicals including sulphuric acid, hexachlorobenzene, which is/are known to the State of California to cause cancer, and hexachlorobenzene, 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:

:

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

### TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:4,5,6-Trichloro-2-pyridinecarboxylic acid496849-77-5pentachlorobenzene608-93-5

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

### Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-073

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



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workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### CAUTION

Causes moderate eye irritation Harmful if absorbed through skin

#### **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

		USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI)
Dow IHG	1	Dow Industrial Hygiene Guideline
	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
03HA 2-1	•	its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
Dow IHG / TWA	:	Time Weighted Average (TWA):
Dow IHG / STEL	:	Short term exposure limit
Dow IHG / TWA	:	Time weighted average
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; 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



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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; 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 : 02/17/2022

Product code: XRM-3972

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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