

Steward® EC Insecticide

Versi 1.1	ion	Revision Date: 09.01.2023		S Number: 000122	Date of last issue: - Date of first issue: 03.01.2018			
SEC	TION 1	. PRODUCT AND COI	MPA	NY IDENTIFICAT	ION			
	Product name		:	Steward® EC Insecticide				
	Recommended use of the chemical and restrictions on use							
	Recom	mended use	:	Insecticide				
	Restrict	ions on use	:	Use as recomme	ended by the label.			
	Manufa	acturer or supplier's o	detai	ils				
	Compa	ny	:	FMC Australasia	Pty Ltd			
	Addres	S	:	Building B, Level North Ryde NSW Australia	2, 12 Julius Avenue, / 2113			
	Telepho	one	:	+616102988790	0			
	Telefax		:	+616102988709	11			
	E-mail a	address	:	SDS-Info@fmc.c	om			
	Emerge	ency telephone numbe	r :	For leak, fire, spi 1800 033 111 (l	ll or accident emergencies, call: xom)			
				Medical emerger 1 800 033 111 (1	ncy: Transport and 24 h Medical information)			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 4
Acute toxicity (Oral)	:	Category 4
Specific target organ toxicity - single exposure	:	Category 2 (Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 1 (Blood, Nervous system, Heart)

GHS label elements



Steward® EC Insecticide

Version 1.1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
Hazard pictograms			
Signa	al word	: Danger	
Hazard statements		H371 May ca H372 Causes	stible liquid. I if swallowed. use damage to organs (Central nervous system). damage to organs (Blood, Nervous system, h prolonged or repeated exposure.
Preca	autionary statements	· Prevention:	
		and other igni P260 Do not P264 Wash s P270 Do not e P280 Wear p	way from heat, hot surfaces, sparks, open flames tion sources. No smoking. oreathe mist or vapours. kin thoroughly after handling. eat, drink or smoke when using this product. rotective gloves/ protective clothing/ eye protec- ection/ hearing protection.
		CENTER/ doo P308 + P311 CENTER/ doo P370 + P378	+ P330 IF SWALLOWED: Call a POISON ctor if you feel unwell. Rinse mouth. IF exposed or concerned: Call a POISON ctor. In case of fire: Use dry sand, dry chemical or ant foam to extinguish.
		Storage: P403 Store in P405 Store lo	a well-ventilated place. cked up.
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste

Other hazards which do not result in classification

Toxic to aquatic life with long lasting effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
indoxacarb (ISO)	173584-44-6	15.84
calcium dodecylbenzenesulphonate	26264-06-2	>= 3 -< 10
Fatty acids, soya, Me esters	68919-53-9	< 10
2-ethylhexan-1-ol	104-76-7	< 10
Fatty acids, C6-10, Me esters	68937-83-7	< 10



Version 1.1	Revision Date: 09.01.2023		000122	Date of last issue: - Date of first issue: 03.01.2018		
ECTION	4. FIRST AID MEASUR	ES				
General advice		:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.			
If inhaled		:	Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.			
In case of skin contact		:	If on clothes, remove clothes. If on skin, rinse well with water. Wash off with soap and plenty of water. Get medical attention immediately if irritation develops and persists.			
In case of eye contact		:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.			
If swallowed		:	Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to do so by a ph cian or poison control center. Keep respiratory tract clear. Obtain medical attention.			
Most important symptoms and effects, both acute and delayed			Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure.			
Protection of first-aiders		:	Avoid inhalation, ingestion and contact with skin and eyes.			
ECTION	5. FIREFIGHTING MEA	SU	RES			
Suital	ble extinguishing media	:	Dry chemical			

Suitable extinguishing media	:	Dry chemical Carbon dioxide (CO2) Water spray Regular foam
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	Thermal decomposition can lead to release of irritating gases and vapours. Chlorinated compounds



Steward® EC Insecticide

Versi 1.1	on Revision Date: 09.01.2023		DS Number: 0000122	Date of last issue: - Date of first issue: 03.01.2018			
			Fluorinated comp Nitrogen oxides (I Carbon oxides Hydrogen chloride Hydrogen fluoride Sulphur oxides	NOx) Ə			
	Specific extinguishing meth- ods		Remove undamaged containers from fire area if it is safe to do so. Use a water spray to cool fully closed containers. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.				
	Special protective equipment for firefighters		Firefighters should wear protective clothing and self-contained breathing apparatus.				
	Hazchem Code :		•3Z				
SEC	SECTION 6. ACCIDENTAL RELEASE MEASURES						
t	Personal precautions, protec- : tive equipment and emer- gency procedures		Use personal prof If it can be safely	nel to safe areas. rective equipment. done, stop the leak.			

tive equipment and emer- gency procedures		Use personal protective equipment. If it can be safely done, stop the leak. Do not touch or walk through the spilled material. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Immediately evacuate personnel to safe areas. Ensure adequate ventilation. Never return spills in original containers for re-use. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene. For disposal considerations see section 13.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Collect as much of the spill as possible with a suitable absor- bent material. Never return spills in original containers for re-use. Pick up and transfer to properly labelled containers.

SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Do not spray on a naked flame or any incandescent material.
fire and explosion		Keep away from open flames, hot surfaces and sources of
		ignition.

Normal measures for preventive fire protection.



Steward® EC Insecticide

Vers 1.1		Revision Date: 09.01.2023		9S Number: 000122	Date of last issue: - Date of first issue: 03.01.2018
	Advice on safe handling		:	Smoking, eating a plication area. Provide sufficient To avoid spills due	pours/dust.
	Hygiene	measures	:	Avoid contact with Do not inhale aero	n skin, eyes and clothing. osol.
				practice. When using do no When using do no Wash hands befor Keep working clot	ot smoke. re breaks and at the end of workday.
	Conditions for safe storage		:	Keep tightly closed in a dry, cool and well-ventilated place Observe label precautions. Keep container closed when not in use. Keep locked up or in an area accessible only to qualified authorised persons. Keep in properly labelled containers. No smoking. Electrical installations / working materials must comply with the technological safety standards.	
	Recomn perature	nended storage tem-	:	> 0 °C	
	Further i age stab	nformation on stor- ility	:	Do not freeze.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Contains no substances with occupational exposure limit values.						
Personal protective equip	ment					
Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter.					
Hand protection						
Material	: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.					
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.					
5 / 24						



Steward® EC Insecticide

Version 1.1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018				
Eye protection		Tightly fitting s	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.				
Skin	and body protection	contact dependent normal work since be avoided for apron of chem ylene (PE) will carded after us	Wear appropriate chemical resistant clothing to prevent skin contact depending on the extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant material or coveralls of polyeth- ylene (PE) will be sufficient. Coveralls of PE must be dis- carded after use if contaminated. In cases of excessive or prolonged exposure, coveralls of barrier laminate may be required.				
Prote	ective measures	Always have o structions. Wear suitable When using do In the context	ction before beginning work with this product. n hand a first-aid kit, together with proper in- protective equipment. o not eat, drink or smoke. of professional plant protection use as recom- nd user must refer to the label and the instruc-				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	amber, light yellow
Odour	:	faint burn smell
Odour Threshold	:	No data available
рН	:	6.6 (20 °C) Concentration: 10 g/l (1% solution in water)
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	69 °C
Evaporation rate	:	Not available for this mixture.



Steward® EC Insecticide

Ve 1.1	rsion	Revision Date: 09.01.2023		S Number:)00122	Date of last issue: - Date of first issue: 03.01.2018		
	Flammability (liquids)		:	Not highly flammable			
	Self-ignition		:	255 °C			
	Upper explosion limit / Upper flammability limit		:	No data available			
		explosion limit / Lower bility limit	:	No data available			
	Vapour pressure		:	Not available for this mixture.			
	Relative vapour density		:	Not available for this mixture.			
	Relative density		:	0.9494 (20 °C)			
	Density	,	:	0.947 g/cm3 (20	°C)		
	Solubili Wat	ty(ies) er solubility	: 15 mg/l emulsifiable (25 °		ble (25 °C)		
	Partitio octanol	n coefficient: n- /water	:	Not available for	this mixture.		
	Auto-ignition temperature		:	No data available			
	Viscosity Viscosity, dynamic		:	5.6 mPa.s (25 °C	C)		
	Visc	osity, kinematic	:	4.68 mm2/s (20	°C)		
	Explosi	ve properties	:	Not explosive			
	Oxidizir	ng properties	:	Non-oxidizing			
	Metal c	orrosion rate	:	Not corrosive to	netals		
	Particle	size	:	Not applicable			

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures Avoid formation of aerosol. Heat, flames and sparks.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers



Version 1.1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018		
Hazar produ	rdous decomposition cts	: Stable under recommended storage conditions.			
SECTION	11. TOXICOLOGICAL	INFORMATION			
	e toxicity ful if swallowed.				
Produ	uct:				
Acute	oral toxicity	Method: OEC	emale): 977 mg/kg CD Test Guideline 425 The component/mixture is moderately toxic afte on.		
Acute	inhalation toxicity	Exposure tim Test atmosph Method: OEC GLP: yes	osphere: dust/mist OECD Test Guideline 403 s nent: The substance or mixture has no acute inhala-		
Acute	dermal toxicity		> 5,000 mg/kg CD Test Guideline 402		
<u>Com</u>	oonents:				
indox	acarb (ISO):				
	oral toxicity		aring		
		LD50 (Rat): 4 Remarks: cei Hypoactivity	407 mg/kg ntral nervous system effects		
Acute	inhalation toxicity	: LC50 (Rat): 4 Exposure tim Test atmosph			
		LC50 (Rat): > Exposure tim Test atmospl			
Acute	dermal toxicity		> 5,000 mg/kg CD Test Guideline 402		



rsion	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018		
calciu	ım dodecylbenzene	sulphonate:			
Acute	oral toxicity	• •	ile and female): 1,300 mg/kg ed on data from similar materials		
Acute	inhalation toxicity	: Remarks: Not	classified		
Acute dermal toxicity		Method: OECI Assessment: T toxicity	 LD50 (Rat, male and female): > 2000 milligram per kilogra Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dern toxicity Remarks: Based on data from similar materials 		
Fatty	acids, soya, Me est	ers:			
-	oral toxicity		000 - 15,000 mg/kg		
Acute	dermal toxicity	: LD50 (Rabbit):	: 2,000 - 20,000 mg/kg		
2-ethy	/lhexan-1-ol:				
Acute	oral toxicity	: LD50 (Rat, ma	le): 2,047 mg/kg		
Acute	inhalation toxicity	Exposure time	LC50 (Rat): 4.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute	dermal toxicity	Method: OECI	ile and female): > 3,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma		
Fatty	acids, C6-10, Me es	ters:			
-	oral toxicity	: LD50 (Rat): >	5,000 mg/kg		
Skin d	corrosion/irritation				
	assified based on ava	ailable information.			
<u>Produ</u> Specie Metho Resul	es od	: Rabbit : OECD Test Gi : Mild skin irritat			
<u>Comp</u>	oonents:				
indox	acarb (ISO):				
Speci	sment od	: Rabbit : No skin irritatio : OECD Test Go : No skin irritatio	uideline 404		
Metho Resul GLP	t	: yes			
Metho Resul GLP	t ım dodecylbenzene				



	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
Metho	od	: OECD Test G	uideline 404
Result	t	: Skin irritation	
Fatty	acids, soya, Me est	ers:	
Result	t	: slight irritation	
2-ethy	/lhexan-1-ol:		
Specie	es	: Rabbit	
Metho	od	: OECD Test G	uideline 404
Result	t	: Skin irritation	
Fatty	acids, C6-10, Me es	ters:	
Specie	es	: Rabbit	
Metho	d	: OECD Test G	uideline 404
Result	t	: Skin irritation	
Serio	us eye damage/eye	irritation	
Not cla	assified based on ava	ailable information.	
<u>Produ</u>	<u>ict:</u>		
Specie		: Rabbit	
Result	t	: No eye irritatio	
Metho	d	: OECD Test G	uideline 405
GLP		: yes	
<u>Comp</u>	oonents:		
indox	acarb (ISO):		
Specie	es	: Rabbit	
Result		: No eye irritatio	
Asses	sment	: No eye irritatio	
Metho	d	: OECD Test G	uideline 405
	od	: OECD Test G : yes	uideline 405
Metho GLP	im dodecylbenzene	: yes	uideline 405
Metho GLP calciu Specie	ım dodecylbenzene es	: yes	uideline 405
Metho GLP calciu Specie Result	ım dodecylbenzene es t	: yes sulphonate: : Rabbit : Irreversible eff	fects on the eye
Metho GLP calciu Specie Result Metho	im dodecylbenzene es t od	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test G	ects on the eye uideline 405
Metho GLP calciu Specie Result	im dodecylbenzene es t od	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test G	fects on the eye
Metho GLP calciu Specie Result Metho Rema	im dodecylbenzene es t od rks es	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test G : Based on data : Rabbit	ects on the eye uideline 405 a from similar materials
Metho GLP calciu Specie Result Metho Rema Specie Result	Im dodecylbenzene es t od rks es t	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test Ge : Based on data : Rabbit : Irreversible eff	fects on the eye uideline 405 a from similar materials fects on the eye
Metho GLP calciu Specie Result Metho Rema	Im dodecylbenzene es t od rks es t	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test G : Based on data : Rabbit	fects on the eye uideline 405 a from similar materials fects on the eye
Metho GLP calciu Specie Result Metho Rema Specie Result Metho	Im dodecylbenzene es t od rks es t	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test Gi : Based on data : Rabbit : Irreversible eff : OECD Test Gi	fects on the eye uideline 405 a from similar materials fects on the eye uideline 405
Metho GLP calciu Specie Result Metho Rema Specie Result Metho	im dodecylbenzene es t od rks es t od acids, soya, Me est	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test Gi : Based on data : Rabbit : Irreversible eff : OECD Test Gi	fects on the eye uideline 405 a from similar materials fects on the eye
Metho GLP calciu Specie Result Metho Result Metho Fatty Result	im dodecylbenzene es t od rks es t od acids, soya, Me est	: yes sulphonate: : Rabbit : Irreversible eff : OECD Test Gi : Based on data : Rabbit : Irreversible eff : OECD Test Gi	fects on the eye uideline 405 a from similar materials fects on the eye uideline 405



ersion 1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018			
Resul Metho		: Irritation to ey : OECD Test G	es, reversing within 21 days Juideline 405			
Fatty	acids, C6-10, Me es	ters:				
Speci	es	: Rabbit				
Resul	t	: slight irritation				
Metho	bd	: OECD Test G	uideline 405			
Resp	iratory or skin sens	itisation				
-	sensitisation					
May c	ause an allergic skin	reaction.				
Resp	iratory sensitisation	1				
-	assified based on av					
<u>Produ</u>	uct:					
Test 1	Гуре	: Maximisation	Test			
Speci		: Guinea pig				
Metho	bd	: OECD Test G				
Resul	t		se skin sensitisation.			
GLP		: yes				
<u>Comp</u>	oonents:					
indox	acarb (ISO):					
Speci		: Guinea pig				
Resul	t	: May cause se	ensitisation by skin contact.			
calciu	ım dodecylbenzene	sulphonate:				
Test 7	Гуре	: Maximisation	Test			
Speci	es	: Guinea pig				
Metho		: OECD Test G				
Resul		: Not a skin ser				
Rema	arks	: Based on data	a from similar materials			
Fatty	acids, soya, Me est	ers:				
Resul	t	: Does not caus	se skin sensitisation.			
Fatty	acids, C6-10, Me es	ters:				
Expos	sure routes	: Skin contact				
Speci		: Guinea pig				
Resul	t	: Not a skin ser	nsitizer.			
Chro	nic toxicity					
	cell mutagenicity					
Not cl	assified based on av	ailable information.				
<u>Produ</u>	uct:					



/ersion .1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
		Method: OE Result: nega	CD Test Guideline 474 ative
	cell mutagenicity - ssment		terial cultures did not show mutagenic effects., ng did not show any mutagenic effects.
Com	ponents:		
indox	(ISO):		
Geno	toxicity in vitro	Metabolic ad	everse mutation assay ctivation: with and without metabolic activation CD Test Guideline 471 ative
Geno	toxicity in vivo	Species: Mo	CD Test Guideline 474
	cell mutagenicity - ssment		cterial or mammalian cell cultures did not show ffects., Animal testing did not show any mutageni
		mutagenic e	cterial or mammalian cell cultures did not show effects., In vivo tests did not show mutagenic ef- utagenic in Ames Test
calciu	um dodecylbenzenes	ulphonate:	
Geno	toxicity in vitro	Method: OE Result: nega	everse mutation assay CD Test Guideline 471 ative ased on data from similar materials
Geno	toxicity in vivo	Species: Ra Application Exposure tir Result: nega	ne: 90 d
	cell mutagenicity - ssment	: Weight of ev cell mutager	vidence does not support classification as a germ
2-eth	ylhexan-1-ol:		
	toxicity in vitro		everse mutation assay CD Test Guideline 471 ative
Geno	toxicity in vivo	Species: Mo	Route: Intraperitoneal injection



	Revision Date: 09.01.2023		0S Number: 000122	Date of last issue: - Date of first issue: 03.01.2018
Fatty	acids, C6-10, Me este	ers:		
Geno	toxicity in vitro	:	Test Type: Ame Result: negative	
Germ cell mutagenicity - : Assessment		In vitro tests did not show mutagenic effects		
	nogenicity assified based on avai	ilable	information	
		labio		
Produ Carcir ment	nogenicity - Assess-	:	Animal testing d	id not show any carcinogenic effects.
<u>Comp</u>	oonents:			
indox	acarb (ISO):			
	nogenicity - Assess-	:	Animal testing d	id not show any carcinogenic effects.
			Did not show ca	rcinogenic effects in animal experiments.
calciu	um dodecylbenzenes	ulpho	onate:	
Speci	es	:	Rat, male and fe	emale
Applic	cation Route		Oral	
		•		
Expos	sure time	:	720 d	
Expos NOAE	sure time EL	:	250 mg/kg body	weight
Expos	sure time EL t	:	250 mg/kg body negative	vweight rom similar materials
Expos NOAE Resul Rema	sure time EL t		250 mg/kg body negative Based on data f	rom similar materials
Expos NOAE Resul Rema Carcin ment	sure time EL t arks	rs:	250 mg/kg body negative Based on data f Weight of evide	rom similar materials
Expos NOAE Resul Rema Carcin ment Fatty	sure time EL t arks nogenicity - Assess-	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment	sure time EL t arks nogenicity - Assess- acids, soya, Me este l	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen Weight of evide	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment 2-eth Speci	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- ylhexan-1-ol: es	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen Weight of evide cinogen	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment 2-ethy Speci Applic	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- y lhexan-1-ol: es cation Route	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen Weight of evide cinogen	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment 2-ethy Speci Applic	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- y lhexan-1-ol: es cation Route sure time	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen Weight of evide cinogen	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment Speci Applic Expos Resul	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- y lhexan-1-ol: es cation Route sure time t	rs:	250 mg/kg body negative Based on data f Weight of evide cinogen Weight of evide cinogen Rat Oral 24 month(s)	rom similar materials nce does not support classification as a ca
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment 2-ethy Speci Applic Expos Resul	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- y lhexan-1-ol: es cation Route sure time	:	250 mg/kg body negative Based on data f Weight of evider cinogen Weight of evider cinogen Rat Oral 24 month(s) negative	-
Expos NOAE Resul Rema Carcin ment Fatty Carcin ment 2-ethy Speci Applic Expos Resul	sure time EL t arks nogenicity - Assess- acids, soya, Me este nogenicity - Assess- ylhexan-1-ol: es cation Route sure time t boluctive toxicity assified based on avai	:	250 mg/kg body negative Based on data f Weight of evider cinogen Weight of evider cinogen Rat Oral 24 month(s) negative	rom similar materials nce does not support classification as a ca



ersion 1	Revision Date: 09.01.2023	-	OS Number: 000122	Date of last issue: - Date of first issue: 03.01.2018
<u>Com</u>	ponents:			
indo	oxacarb (ISO):			
	roductive toxicity - As- ment	:	to reproduction	id not show any effects on fertility., No toxicity id not show any effects on foetal develop-
			No toxicity to rep	production
calc	ium dodecylbenzenesi	ulpho	onate:	
	cts on fertility	:	Test Type: Fertil Species: Rat, ma Application Rout General Toxicity	e: Ingestion - Parent: NOAEL: 400 mg/kg body weight Test Guideline 422
Effeo men	cts on foetal develop- t	:	Species: Rat Application Rout General Toxicity Developmental	Maternal: NOAEL: 300 mg/kg body weight Foxicity: NOAEL: 600 mg/kg body weight Test Guideline 422
	roductive toxicity - As- ment	:	Weight of evider ductive toxicity	nce does not support classification for repro-
2-etl	hylhexan-1-ol:			
	cts on foetal develop-	:	Species: Mouse Application Rout	Test Guideline 414
STO	T - single exposure			
Мау	cause damage to organ	is (Co	entral nervous sys	stem).
Proc	<u>luct:</u>			
	et Organs essment	:		system or mixture is classified as specific target organ exposure, category 2.
<u>Com</u>	ponents:			
indo	oxacarb (ISO):			
Targ	et Organs essment	:		system or mixture is classified as specific target organ exposure, category 2.



exan-1-ol: ient epeated exposur damage to organs eents: arb (ISO): rgans ient		-	piratory irritation. m, Heart) through prolonged or repeated exp
ent epeated exposur damage to organs e <u>ents:</u> arb (ISO): rgans	e	-	piratory irritation. m, Heart) through prolonged or repeated exp
epeated exposur damage to organs tents: arb (ISO): rgans	e	-	
damage to organs n <u>ents:</u> arb (ISO): rgans		, Nervous syste	m, Heart) through prolonged or repeated ex
ents: arb (ISO): rgans	(Blood	, Nervous syste	m, Heart) through prolonged or repeated exp
arb (ISO): rgans	:		
rgans	:		
	:		
	:		s system, Heart ge to organs through prolonged or repeated
d dose toxicity			
ents:			
arb (ISO):			
	:	Rat	
_	:	0.6 mg/kg	
on Route	:	Oral	
e time	:	90 d	
rgans	:	Blood, Nervous	s system
-	:	Rat	
on Route	:	Inhalation	
i	:	Incoordination	
		mortality	destruction causing abnormal decrease in
			blood cells (anemia)
dodecvibenzene	sulpho	nate:	
·····	:		female
	:		
on Route	:	Oral	
e time	:	9 Months	
i	:	Based on data	from similar materials
	:		female
	:	100 mg/kg	
_	:	200 mg/kg	
	:	Oral	
etime	:		
	:		
i	:	Dased on data	ווסחו אוחוומר המנפרומוא
	:	Rat, male	
	:		
an Davits	:		
on Route	-	15 Devie	
on Route e time	:	15 Days Based on data	from similar materials
	on Route time on Route time	on Route	dodecylbenzenesulphonate: : Rat, male and f : 85 mg/kg : 145 mg/kg : 145 mg/kg : 145 mg/kg : 0ral : Based on data : Rat, male and f : 100 mg/kg : 200 mg/kg : 200 mg/kg : 200 mg/kg : 28 Days : OECD Test Gu : Based on data : Rat, male : 28 Ch



Version 1.1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
Spec Appli	cation Route sure time	: Rat : 250 mg/kg : Oral : 13 weeks : OECD Test (Guideline 408
Not c Prod	r ation toxicity lassified based on ava <u>uct:</u> spiration toxicity classi		
Prod			
Rema <u>Com</u>	arks ponents:	: No data avai	lable
indo	kacarb (ISO):		
Rema	• •	ysis.	s on nervous system: drowsiness, tremors, paral- itionally: Cyanosis

SECTION 12. ECOLOGICAL INFORMATION

Ecoto	vic	itv
ECOLO	XIC	π

Product:	
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): 7.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): 1.67 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	 ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes



Vers 1.1	sion	Revision Date: 09.01.2023	-	9S Number: 000122	Date of last issue: - Date of first issue: 03.01.2018
	Compo	onents:			
	indoxa	carb (ISO):			
	Toxicity	ν to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: flow-th Method: OECD To GLP: yes	rough test
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.6 mg/l 3 h
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 90 Test Type: Early I Method: OECD To GLP: yes	_ife-Stage
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To GLP: yes	
	Toxicity ganism	∕ to soil dwelling or- s	:	LC50 (Eisenia feti Exposure time: 14 Method: OECD To GLP: yes	
	Toxicity isms	v to terrestrial organ-	:	LD50 (Apis mellife End point: Acute o	era (bees)): 0.216 µg/bee oral toxicity
				LD50 (Colinus vir	ginianus (Bobwhite quail)): 152 mg/kg
				LD50 (Apis mellife End point: Acute of	era (bees)): 0.094 μg/bee contact toxicity
				LD50 (Colinus vir	ginianus (Bobwhite quail)): 98 mg/kg
	calciun	n dodecylbenzenesul	pho	onate:	
	Toxicity	•	:	LC50 (Danio rerio Exposure time: 96 Method: OECD To	
				Exposure time: 96	s promelas (fathead minnow)): 4.6 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	



Versio 1.1	on Revision Date: 09.01.2023		9S Number: 000122	Date of last issue: - Date of first issue: 03.01.2018
	Toxicity to algae/aquatic plants		mg/l Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD Te	
а	oxicity to daphnia and other quatic invertebrates (Chron- toxicity)	:	Exposure time: 21	nagna (Water flea)): 1.65 mg/l I d on data from similar materials
			Exposure time: 21	nagna (Water flea)): 1.18 mg/l l d on data from similar materials
Т	oxicity to microorganisms	:	EC50 (activated s Exposure time: 3 Method: OECD Te	h
	oxicity to soil dwelling or- anisms	:	LC50 (Eisenia feti Exposure time: 14 Method: OECD Te	
	oxicity to terrestrial organ-	:	LD50 (Colinus virg Exposure time: 14 Method: OECD Te	
F	atty acids, soya, Me esters	:		
	oxicity to fish	:	LC50 (Fish): > 1,0 Exposure time: 96	•
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Crustacear Exposure time: 48	ns): 800 - 5,243 mg/l 3 h
2	-ethylhexan-1-ol:			
	oxicity to fish	:	LC50 (Leuciscus i Exposure time: 96	idus (Golden orfe)): 17.1 - 28.2 mg/l 3 h
	oxicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 39 mg/l 3 h
	oxicity to algae/aquatic lants	:	EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 3.2 mg/l 2 h
			EC50 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 11.5 mg/l 2 h
Т	oxicity to microorganisms	:	EC50 (Anabaena Exposure time: 72	flos-aquae (cyanobacterium)): 16.6 mg/l 2 h



ersion 1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
Fatty	acids, C6-10, Me ester	s:	
Toxic	ity to fish	Exposure time	cus idus (Golden orfe)): 95 mg/l e: 48 h eed on data from similar materials
	ity to daphnia and other ic invertebrates		arus fasciatus (freshwater shrimp)): 14.7 mg ed on data from similar materials
Persi	stence and degradabil	ity	
Com	oonents:		
indox	acarb (ISO):		
Biode	gradability	: Result: Not re	adily biodegradable.
calciu	ım dodecylbenzenesu	lphonate:	
Biode	gradability		y biodegradable. D Test Guideline 301E
2-eth	ylhexan-1-ol:		
Biode	gradability	: Result: Readil	y biodegradable.
Fatty	acids, C6-10, Me ester	'S:	
Biode	gradability	: Result: Readil	y biodegradable.
Bioad	cumulative potential		
Produ	uct:		
Bioac	cumulation		es not bioaccumulate. sed on data obtained on active ingredient.
<u>Comp</u>	oonents:		
indox	acarb (ISO):		
Bioac	cumulation	Bioconcentrat Exposure time	omis macrochirus (Bluegill sunfish) ion factor (BCF): 77.3 e: 21 d D Test Guideline 305
	on coefficient: n- ol/water	: log Pow: 0.57	(20 °C)
calciu	ım dodecylbenzenesu	lphonate:	
	cumulation	: Species: Fish	ion factor (BCF): 70.79 R
	on coefficient: n- ol/water	: log Pow: 4.77	(25 °C)



Steward® EC Insecticide

Version 1.1	Revision Date: 09.01.2023	SDS Number: 50000122	Date of last issue: - Date of first issue: 03.01.2018
Parti	n ylhexan-1-ol: tion coefficient: n- nol/water	: log Pow: 2.9 (25 °C)
Mob	ility in soil		
Com	ponents:		
Distr	xacarb (ISO): ibution among environ- tal compartments		g, log Koc: 3.65 v mobility in soil
Othe	er adverse effects		
	luct: tional ecological infor- on		abel for additional application instructions relat- mental precautions.
		unprofessiona	ntal hazard cannot be excluded in the event of I handling or disposal. tic life with long lasting effects.
<u>Com</u>	ponents:		
indo	oxacarb (ISO):		
Addi mati	tional ecological infor- on		abel for additional application instructions relat- mental precautions.
			ntal hazard cannot be excluded in the event of I handling or disposal.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 Dispose of as hazardous waste in compliance with local and national regulations. Dispose of wastes in an approved waste disposal facility. Waste must be classified and labelled prior to recycling or disposal. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Send to a licensed waste management company.
Contaminated packaging	 Empty remaining contents. Do not re-use empty containers. Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.



Version 1.1	Revision Date: 09.01.2023	SDS N 50000	Number: 122	Date of last issue: - Date of first issue: 03.01.2018
			spose of cor ant.	ntents/ container to an approved waste disposal
SECTION	14. TRANSPORT INFO	RMATI	ON	
Interr	national Regulations			
UNR	ſDG			
UN nu	umber	: UN	N 3082	
Prope	er shipping name	Ν.	IVIRONMEN O.S. ndoxacarb)	NTALLY HAZARDOUS SUBSTANCE, LIQUID,
Class		: 9		
	ng group	: 111		
Label	S	: 9		
IATA	-DGR			
UN/IC		-	1 3082	
-	er shipping name		ivironmental ndoxacarb)	lly hazardous substance, liquid, n.o.s.
Class		: 9		
	ng group	: 111		
Label			scellaneous	
Packi aircra	ng instruction (cargo ft)	: 96	4	
Packi	ng instruction (passen-	: 96	4	
	rcraft)			
Enviro	onmentally hazardous	: ye	S	
	-Code			
	umber		V 3082	
Prope	er shipping name			NTALLY HAZARDOUS SUBSTANCE, LIQUID
			O.S. doxacarb)	
Class		: 9	uuxacarb)	
	ng group	: 111		
Label		: 9		
EmS	Code	: F-,	A, S-F	
Marin Rema	e pollutant arks	sir sir	vironmental ngle or comb ngle or inner	Ily hazardous substances/Marine Pollutants in pination packaging containing a net quantity pe packaging of 5 kg or less for solids, or having
		liq vic	uids may be	er single or inner packaging of 5 L or less for e transported as non-dangerous goods as pro- al provision A197 of the IATA and section DG code.

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

Not applicable for product as supplied.

National Regulations

ADG		
UN number Proper shipping name	-	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	09.01.2023	50000122	Date of first issue: 03.01.2018
Labels	em Code	tions of UN 307 when transporte	y hazardous substances meeting the descrip- 7 or UN 3082 are not subject to the ADG Code ed by road or rail in packagings that do not eceptacle exceeding 500 kg / liters, or IBCs

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform : Schedule 6 Scheduling of Medicines and Poisons

APVMA Number: 59573

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.
		METHYL (S)-7-CHLORO-2,3,4A,5-TETRAHYDRO-2- {(METHOXYCARBONYL)[4- (TRIFLUOROMETHOXY)PHENYL]CARBAMOYL}INDENO[1, 2-E][1,3,4]OXADIAZINE-4A-CARBOXYLATE Fatty acids, C8-10, Me esters



Version 1.1	Revision Date: 09.01.2023		DS Number: 0000122	Date of last issue: - Date of first issue: 03.01.2018
			Fatty acids, C6-1	0, Me esters
ENCS		:	Not in compliance	e with the inventory
ISHL		:	Not in compliance	e with the inventory
KECI		:	Not in compliance	e with the inventory
PICCS	i	:	Not in compliance	e with the inventory
IECSC	:	:	Not in compliance	e with the inventory
NZIoC		:	Not in compliance	e with the inventory
TECI		:	Not in compliance	e with the inventory

SECTION 16. OTHER INFORMATION

Revision Date	:	09.01.2023
Date format	:	dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-



Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	09.01.2023	50000122	Date of first issue: 03.01.2018

mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to ensure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

AU / 6N