

Version 1.1	Revision Date: 10/14/2022	SDS Number: 50000089	Date of last issue: - Date of first issue: 02/01/2018					
SECTION	SECTION 1. IDENTIFICATION							
	Product identifier Product name		Panoflex(TM) Herbicide (with TotalSol(R) soluble granules)					
	Other means of identification Product code		5000089					
Reco	mmended use of the	chemical and restri	ctions on use					
	mmended use		as herbicide only.					
Rest	rictions on use	Use as recom	mended by the label.					
Detai	ils of the supplier of th	ne safety data shee	<u>t</u>					
<u>Manı</u>	Manufacturer		FMC Corporation					
			2929 WALNUT ST					
			PHILADELPHIA PA 19104					
		USA (215) 200 60(						
			(215) 299-6000 (General Information) SDS-Info@fmc.com					
		3D3-IIII0@III	10.00m					
Emer	gency telephone							
		1 800 / 424-9 1 703 / 741-5	For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)					
			gency: ada: +1 800 / 331-3148 htries: +1 651 / 632-6793 (Collect)					

# 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 - repeated exposure	:	Category 2 (Thyroid, Nervous system)
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning

# SAFETY DATA SHEET



# Panoflex(TM) Herbicide (with TotalSol(R) soluble granules)

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Hazard Statements		H373 May caus	e an allergic skin reaction. e damage to organs (Thyroid, Nervous system) jed or repeated exposure.
Precautionary Statements		Frevention: P260 Do not bro P272 Contamin the workplace. P280 Wear prof	ated work clothing must not be allowed out of
		P314 Get medic P333 + P313 If attention.	ON SKIN: Wash with plenty of water and soap. cal advice/ attention if you feel unwell. skin irritation or rash occurs: Get medical advice/ ntaminated clothing before reuse.
		<b>Disposal:</b> P501 Dispose c posal plant.	of contents/ container to an approved waste dis-

# Other hazards

None known.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Tribenuron-methyl	101200-48-0	40
thifensulfuron-methyl (ISO)	79277-27-3	10
sodium carbonate	497-19-8	>= 5 - < 10
Phosphoric acid, trisodium salt, do- decahydrate	10101-89-0	>= 5 - < 10

Actual concentration is withheld as a trade secret

# SECTION 4. FIRST AID MEASURES

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	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If on skin, rinse well with water.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye.



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				Keep eye wide op If eye irritation per	en while rinsing. sists, consult a specialist.
If swallowed		:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.		
	Most important symptoms and effects, both acute and delayed		:	May cause an alle May cause damag exposure.	ergic skin reaction. ge to organs through prolonged or repeated
	Notes t	o physician	:	Treat symptomatically.	
SEC	SECTION 5. FIRE-FIGHTING MEA			IRES	
	Suitable extinguishing media		:	Water spray, fog, or 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 wat courses.	
	Hazard ucts	lous combustion prod-	:	Nitrogen oxides (N Sulfur oxides Carbon oxides Hydrogen cyanide phosphorus oxide	, ,
	Further	must not be dis Fire residues a		must not be disch Fire residues and	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

# Special protective equipment:Wear self-contained breathing apparatus for firefighting if nec-<br/>essary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	<ul> <li>Use personal protective equipment. Avoid dust formation. Avoid breathing dust. 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.</li> </ul>
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Environmental precautions		:	Prevent further lea	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ties.	
Methods and materials for containment and cleaning up		:	Keep in suitable, closed containers for disposal.		
SEC	CTION 7	. HANDLING AND ST	OR	AGE	
		on protection against d explosion	:	Avoid dust format Provide appropria is formed.	on. te exhaust ventilation at places where dust
	Advice	on safe handling	:	Do not breathe va Avoid exposure - Avoid contact with For personal prote Smoking, eating a plication area. Provide sufficient Dispose of rinse v regulations. Persons susceptil allergies, chronic	obtain special instructions before use.
	Conditi	ons for safe storage	<ul> <li>Keep container tightly closed in a dry and well-ventila place.</li> <li>Containers which are opened must be carefully resea kept upright to prevent leakage.</li> <li>Electrical installations / working materials must comp the technological safety standards.</li> </ul>		are opened must be carefully resealed and event leakage. ons / working materials must comply with
	Further age sta	r information on stor- ability	:	No decompositior	if stored and applied as directed.

# 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
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	STEL	5 mg/m3	US WEEL

### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

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			concentrations ar known, appropria Follow OSHA res use NIOSH/MSH, by air purifying re ous chemical is lin respirator if there exposure levels a	posures below recommended limits. Where e above recommended limits or are un- te respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any hazard- mited. Use a positive pressure air supplied is any potential for uncontrolled release, re unknown, or any other circumstance g respirators may not provide adequate
	protection aterial	:	Wear chemical re butyl rubber or nit	sistant gloves, such as barrier laminate, rile rubber.
Rema	Remarks			a specific workplace should be discussed s of the protective gloves.
Еуе р	Eye protection		Eye wash bottle v Tightly fitting safe	
Skin	Skin and body protection			protective suit tection according to the amount and con- langerous substance at the work place.
Prote	ctive measures	:	Always have on h structions. Wear suitable pro	on before beginning work with this product. and a first-aid kit, together with proper in- tective equipment. of eat, drink or smoke.
Hygie	ene measures	:	When using do no When using do no Wash hands befo	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid, granular
Color	: light brown
Odor	: none
Odor Threshold	: No data available
рН	: 9.4

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		:	No data available	9
		:	No data available	9
Flash	n point	:	No data available	9
Evap	oration rate	:	Not available for	this mixture.
Flam	mability (solid, gas)	:	The product is no	ot flammable.
Self-i	ignition	:	No data available Not available for	
	er explosion limit / Upper nability limit	:	Not available for	this mixture.
	er explosion limit / Lower nability limit	:	Not available for	this mixture.
Vapo	or pressure	:	Not available for	this mixture.
Relat	tive vapor density	:	Not available for	this mixture.
Relat	tive density	:	Not available for	this mixture.
	oility(ies) /ater solubility	:	No data available	9
S	olubility in other solvents	:	No data available	9
Autoi	ignition temperature	:	No data available	9
Decc	omposition temperature	:	Not available for	this mixture.
Visco Vi	osity iscosity, dynamic	:	No data available	9
Vi	iscosity, kinematic	:	No data available	9
Explo	Explosive properties		No data available	9
Oxidi	izing properties	:	No data available	9
Partie	cle size	:	No data available	2

# 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-	:	No decomposition if stored and applied as directed.



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tions		Dust may for	m explosive mixture in air.	
Condi	itions to avoid	: No data avail	able	
Incom	npatible materials	: Not applicable		
Hazaı produ	rdous decomposition	: No decompos	sition if stored normally.	

# SECTION 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Not classified based on available information.

P	rod	uct:

Acute oral toxicity :	LD50 (Rat): > 5,000 mg/kg Remarks: (Data on the product itself) Information source: Internal study report
Acute inhalation toxicity :	LC50 (Rat): > 5.0 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Remarks: Information given is based on data obtained from similar substances. Information source: Internal study report
Acute dermal toxicity :	LD50 (Rabbit): > 5,000 mg/kg Remarks: (Data on the product itself) Information source: Internal study report

# Skin corrosion/irritation

Not classified based on available information.

Product:		
Species	: Rabbit	
Result	: No skir	n irritation
Remarks	: (Data c	on the product itself)
	Informa	ation source: Internal study report

## Serious eye damage/eye irritation

Not classified based on available information.

### Product:

	-	Rabbit
		No eye irritation
Remarks	:	(Data on the product itself)
		Information source: Internal study report



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## Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

### **Respiratory sensitization**

Not classified based on available information.

#### Product:

Species	:	Guinea pig
Result	:	Causes sensitization.
Remarks	:	(Data on the product itself)
		Information source: Internal study report

### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

# Tribenuron-methyl:

Germ cell mutagenicity -	:	Did not show mutagenic effects in animal experiments.
Assessment		

#### thifensulfuron-methyl (ISO):

Genotoxicity in vitro :	Test system: Chinese hamster ovary cells Method: OECD Test Guideline 476 Result: negative Remarks: In vitro tests did not show mutagenic effects				
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.				
sodium carbonate:					
Genotoxicity in vitro :	Test Type: reverse mutation assay Method: Mutagenicity (Salmonella typhimurium - reverse mu- tation assay) Result: negative Remarks: Based on data from similar materials				
Germ cell mutagenicity - : Assessment	Weight of evidence does not support classification as a germ cell mutagen.				
Phosphoric acid, trisodium salt, dodecahydrate:					
Genotoxicity in vitro :	Test Type: gene mutation test Method: OECD Test Guideline 490				

### Test Type: Micronucleus test

Remarks: Based on data from similar materials

**Result:** negative



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			lethod: OECD T esult: negative	est Guideline 487
	cell mutagenicity - ssment	: Ir	i vitro tests did r	not show mutagenic effects
	<b>nogenicity</b> assified based on avai	lable inf	ormation.	
Com	oonents:			
Tribe	nuron-methyl:			
Rema	ırks	: N	o significant adv	verse effects were reported
Carcii ment	nogenicity - Assess-	: D	id not show care	cinogenic effects in animal experiments.
thifer	sulfuron-methyl (ISC	)):		
	nogenicity - Assess-	: V	/eight of eviden nogen	ce does not support classification as a car-
IARC				t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSH/			is product prese gulated carcino	nt at levels greater than or equal to 0.1% is gens.
NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
•	oductive toxicity assified based on avai	lable inf	ormation.	
Com	oonents:			
Tribe	nuron-methyl:			
Repro sessn	ductive toxicity - As- nent	A		oduction I not show any effects on fetal developmer togenic effects in animal experiments.
thifer	sulfuron-methyl (ISC	):		
Repro sessn	ductive toxicity - As- nent	: D	id not show tera	togenic effects in animal experiments.
sodiu	m carbonate:			
Effect	s on fetal developmen	A D D	uration of Single	e: Oral 52.9, 245 milligram per kilogram e Treatment: 6 - 15 d Maternal: NOAEL: > 245 mg/kg body weigl



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			Teratogenicity: N Result: negative	OAEL: > 245 mg/kg body weight
Repro sessm	ductive toxicity - As- ent	:	Weight of evidend ductive toxicity	ce does not support classification for repro-
Phosp	ohoric acid, trisodium	salt	, dodecahydrate:	:
Effects	s on fertility	:	General Toxicity Method: OECD T Result: negative	e: Oral
Effects	s on fetal development	:	Species: Rat Application Route Dose: 4.1,19,88.3 Duration of Single General Toxicity Embryo-fetal toxi Result: negative	ductive and developmental toxicity study e: Oral 3,410mg/kgbw/day e Treatment: 20 d Maternal: NOAEL: > 410 mg/kg bw/day city.: NOAEL: > 410 mg/kg bw/day on data from similar materials
Repro sessm	ductive toxicity - As- ient	:	Weight of evidened ductive toxicity	ce does not support classification for repro-
Not cla <u>Comp</u>	-single exposure assified based on availa onents: nuron-methyl:	ıble	information.	
Asses	sment	:	The substance or organ toxicant, si	r mixture is not classified as specific target ngle exposure.
Phosp	phoric acid, trisodium	salt	, dodecahydrate:	
Asses	sment	:	May cause respir	atory irritation.
	-repeated exposure ause damage to organs	5 (Tł	nyroid, Nervous sys	stem) through prolonged or repeated expo-
<u>Produ</u>				
Rema	rks	:		xicity and/or repeated dose toxicity data for on target organs if applicable.



ersion I	Revision Date: 10/14/2022	SDS Number: 50000089	Date of last issue: - Date of first issue: 02/01/2018
Repe	ated dose toxicity		
Comp	oonents:		
Tribe	nuron-methyl:		
Speci	es	: Rabbit	
LÒAE		: 80 mg/kg	
Targe	t Organs	: Thyroid, Nervo	ous system
Asses	sment	: The substance	or mixture is classified as specific target org
			ted exposure, category 2.
Rema	urks	: Increased mor	tality or reduced survival
thifen	sulfuron-methyl (IS	D):	
Speci	es	: Rat	
LOAE		: ca. 200 mg/kg	
	sure time	: 90 d	
	t Organs	: No specific tar	get organs noted
Symp	5	: Reduced body	
sodiu	m carbonate:		
Speci	es	: Rat, male and	female
NOAE		: > 0.01 mg/kg	
Applic	ation Route	: inhalation (dus	t/mist/fume)
	atmosphere	: dust/mist	,
Phos	phoric acid, trisodiu	n salt, dodecahydra	te:
Speci		: Dog, female	
NOAE		: 492.77 mg/kg	bw/day
LOAE		: 1433.56 mg/kg	
Applic	ation Route	: Oral - feed	, · · · · · · · · · · · · · · · · · · ·
	sure time	: 90 d	
Dose			,1433.56mg/kgbw/d
Targe	t Organs	: Kidney	,
Rema			from similar materials
Speci		: Dog, male	
NOAE		: 322.88 mg/kg	
		: 1107.12 mg/kg	g bw/day
LOAE		: Oral - feed	
LOAE Applic	ation Route		
LOAE Applic Expos	cation Route sure time	: 90 d	
LOAE Applic Expos Dose	sure time	: 94.23,322.88,7	107.12mg/kgbw/da
LOAE Applic Expos Dose	sure time t Organs	: 94.23,322.88,´ : Kidney	107.12mg/kgbw/da from similar materials

Aspiration toxicity

Not classified based on available information.

# Product:

No aspiration toxicity classification



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Further information <u>Product:</u> Remarks		: Information	given is based on data on the components.
Remarks		ments of the (OSHA) Haz tion 15 for a ments of the Act (FIFRA)	presented in this Section conforms to the require- e Occupational Safety and Health Administration card Communication Standard of 2012. See Sec- pplicable information conforming to the require- e Federal Insecticide Fungicide and Rodenticide , as required by the US Environmental Protection A), or by state Regulatory Agencies.
Rema	arks	: No data ava	ilable

# SECTION 12. ECOLOGICAL INFORMATION

# Ecotoxicity

# Components:

# Tribenuron-methyl:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 738 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Crustaceans): > 320 mg/l Exposure time: 48 h
		EC50 (Daphnia magna (Water flea)): > 894 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0208 mg/l Exposure time: 120 h
		EC50 (Lemna gibba (duckweed)): 0.00424 mg/l Exposure time: 14 d
Toxicity to fish (Chronic tox- icity)	:	NOEC (Cyprinodon variegatus (sheepshead minnow)): 114 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
		NOEC (Oncorhynchus mykiss (rainbow trout)): 560 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 41 mg/l Exposure time: 21 d
Toxicity to soil dwelling or-	:	NOEC (Eisenia fetida (earthworms)): 3.2 mg/kg



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g	janisms	i		Exposure time: 56	3 d
	Toxicity to terrestrial organ- isms		:	LD50 (Colinus virg	ginianus (Bobwhite quail)): > 2,250 mg/kg
				LD50 (Colinus viro Remarks: Dietary	ginianus (Bobwhite quail)): > 5,620 ppm
				LD50 (Anas platyr Remarks: Dietary	hynchos (Mallard duck)): > 5,620 ppm
				LD50 (Apis mellife Exposure time: 48 End point: Acute of	
				LD50 (Apis mellife Exposure time: 48 End point: Acute of	
E	Ecotoxi	cology Assessment			
Α	Acute ad	quatic toxicity	:	Very toxic to aqua	tic life.
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
t	hifensı	Ilfuron-methyl (ISO):			
Т	oxicity	to fish	:	LC50 (Salmo gair Exposure time: 96	
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 250 mg/l ≩h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 470 mg/l 3 h
	oxicity	to algae/aquatic	:	IC50 (green algae Exposure time: 72	
				ErC50 (Raphidoce mg/l Exposure time: 72	elis subcapitata (freshwater green alga)): 1.4 2 h
				EC50 (Lemna mir	nor (duckweed)): 1.3 µg/l
	oxicity	to fish (Chronic tox-	:	NOEC (Salmo gai Exposure time: 28	
				NOEC (Oncorhyn Exposure time: 21	chus mykiss (rainbow trout)): 10.6 mg/l I d
а		to daphnia and other invertebrates (Chron- y)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 100 mg/l ⊢d



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	Toxicity to soil dwelling or- ganisms		LC50 (Eisenia fetida (earthworms)): > 2,000 mg/kg	
Toxici isms			LD50 (Anas platyrhynchos (Mallard duck)): > 2,510 mg	
			LD50 (Anas platy Remarks: Dietary	rhynchos (Mallard duck)): > 5,620 ppm
			LD50 (Colinus vir	ginianus (Bobwhite quail)): > 5,620 ppm
			LD50 (Apis mellife End point: Acute o	era (bees)): > 7.1 μg/bee oral toxicity
			LD50 (Apis mellife End point: Acute	era (bees)): > 100 μg/bee contact toxicity
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic life.
Chron	ic aquatic toxicity	:	: Very toxic to aquatic life with long lasting effects.	
sodiu	m carbonate:			
Toxici	ty to fish	:	LC50 (Lepomis m Exposure time: 96 Test Type: static t	
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodaphnia (water flea)): 200 mg/l Exposure time: 48 h Test Type: semi-static test	
Phos	phoric acid, trisodium	salt	, dodecahydrate:	
Toxici	ty to fish	:	Exposure time: 96 Method: OECD Te	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials	
Toxici plants	ty to algae/aquatic	:	Exposure time: 72 Method: EU Meth	
			NOEC (Desmode Exposure time: 72 Method: EU Meth	



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			Remarks: Based	on data from similar materials
Toxic	Toxicity to microorganisms		Exposure time: 3 Method: OECD 1	sludge): 1,000 mg/l h ēst Guideline 209 on data from similar materials
			Exposure time: 3 Method: OECD 1	sludge): 1,000 mg/l h Test Guideline 209 on data from similar materials
	Toxicity to soil dwelling or- ganisms		LC50 (Eisenia fetida (earthworms)): > 3,500 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207 Remarks: Based on data from similar materials	
Persi	stence and degradabi	ility		
<u>Com</u>	ponents:			
Tribe	nuron-methyl:			
Biode	egradability	:	Biodegradation: Exposure time: 2	
thifer	nsulfuron-methyl (ISO	):		
Biode	egradability	:	Primary degrada	adily biodegradable. tion half-lives vary with circumstances, from a v weeks in aerobic water and soil.
sodiu	um carbonate:			
Biode	egradability	:		ethods for determining biodegradability are inorganic substances.
Bioad	ccumulative potential			
<u>Com</u>	ponents:			
Tribe	nuron-methyl:			
Bioac	cumulation	:	Bioconcentration Remarks: Does r	factor (BCF): < 1 not bioaccumulate.
	ion coefficient: n- ol/water	:	log Pow: -0.38	
thifer	nsulfuron-methyl (ISO	):		
	cumulation	:	Bioconcentration Remarks: Does r	factor (BCF): 1 not bioaccumulate.
sodiu	ım carbonate:			

# sodium carbonate:

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	Bioaccumulation		:	Remarks: Does no	ot bioaccumulate.
	Mobilit	y in soil			
	Compo	onents:			
	Triben	uron-methyl:			
	Distribution among environ- mental compartments		:	Remarks: Under normal conditions the active ingredient/s is/are of high to intermediate mobility in soil. There is a potential for leaching to groundwater.	
	thifens	ulfuron-methyl (ISO):			
		ition among environ- compartments	:	Koc: 28.3, log Koo Remarks: Highly r	
	Stability	/ in soil	:		
	Other adverse effects				
	Produc	<u>:t:</u>			
	Ozone-	Depletion Potential	:	tection of Stratosp Substances Remarks: This pro tured with a Class	R Protection of Environment; Part 82 Pro- oheric Ozone - CAA Section 602 Class I oduct neither contains, nor was manufac- I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B).
	Addition mation	nal ecological infor-	:	is present, or to in mark. Do not contamina	zards ttly to water, or to areas where surface water tertidal areas below the mean high water te water when cleaning equipment or dis- ent washwaters or rinsate.
				unprofessional ha	hazard cannot be excluded in the event of ndling or disposal. tic life with long lasting effects.

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.



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# **SECTION 14. TRANSPORT INFORMATION**

## International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Tribenuron-methyl, Thifensulfuron-methyl)
Class	:	9
Subsidiary risk	:	ENVIRONM.
Packing group	:	
Labels	:	9 (ENVIRONM.)
IATA-DGR		
UN/ID No.	•	UN 3077
Proper shipping name	÷	Environmentally hazardous substance, solid, n.o.s.
		(Tribenuron-methyl, Thifensulfuron-methyl)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	956
aircraft)		
Packing instruction (passen-	:	956
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number		UN 3077
Proper shipping name	÷	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
· · · · · · · · · · · · · · · · · · ·	-	N.O.S.
		(Tribenuron-methyl, Thifensulfuron-methyl)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

## **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Tribenuron-methyl, Thifensulfuron-methyl)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes (Tribenuron-methyl, Thifensulfuron-methyl)
Remarks	:	Shipment by ground under DOT is non-regulated; however it



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may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

#### Special precautions for user

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

### SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards	:	No SARA Hazard	S	
SARA 313	:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
		Tribenuron- methyl	101200-48-0	>= 30 - < 50 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Phosphoric acid, trisodi- 10101-89-0 >= 5 - < 10 % um salt, dodecahydrate

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

## US State Regulations

## Massachusetts Right To Know

Phosphoric acid, trisodium salt, dodecahydrate

10101-89-0



/ersion .1	Revision Date: 10/14/2022	SDS Number: 50000089	Date of last issue: Date of first issue:	
Penn	<b>sylvania Right To Kr</b> Tribenuron-meth			101200-48-0
			topyranosyl-, monohy-	10039-26-6
	thifensulfuron-me sodium carbonat Phosphoric acid,		ahydrate	79277-27-3 497-19-8 10101-89-0
Maine	e Chemicals of High	Concern		
	Product does not	contain any listed ch	nemicals	
Verm	ont Chemicals of Hig Product does not	<b>gh Concern</b> : contain any listed ch	nemicals	
Wash	ington Chemicals of	High Concern		
	Product does not	contain any listed ch	nemicals	
Califo	ornia List of Hazardo	us Substances		
	Phosphoric acid,	trisodium salt, dodec	ahydrate	10101-89-0
<b>The i</b> TCSI	ngredients of this pr	-	n the following inventor ance with the inventory	ories:
TSCA		: Product conta	ins substance(s) not list	ed on TSCA inventory
AIIC		: Not in complia	ance with the inventory	
DSL			contains the following co ian DSL nor NDSL.	mponents that are not
ENCS	3	: Not in complia	ance with the inventory	
ISHL		: Not in complia	ance with the inventory	
KECI		: Not in complia	ance with the inventory	
PICC	8	: Not in complia	ance with the inventory	
IECS	C	: Not in complia	ance with the inventory	
NZIOC	2	: Not in complia	ance with the inventory	
TECI		: Not in complia	ance with the inventory	

# **TSCA** list

No substances are subject to a Significant New Use Rule.

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



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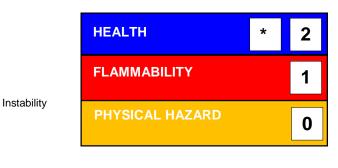
# **SECTION 16. OTHER INFORMATION**

# **Further information**



Health





HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Special hazard

Flammability

0

:

÷

0 No health threat, 1 Slightly Hazardous, 2 Hazardous, 3 Extreme danger, 4 Deadly

# Full text of other abbreviations

2

US WEEL US WEEL / STEL USA. Workplace Environmental Exposure Levels (WEEL) Short-Term TWA

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, Bioaccumu-



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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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End of Material Safety Data Sheet