SAFETY DATA SHEETS

This SDS packet was issued with item: 078949741

N/A



			7265-00017	Date of first issue: 05/16/2016				
SECTION 1	I. IDENTIFICATION							
Produc	ct name	:	Permethrin / F	Piperonyl Butoxide Formulation				
Manuf	acturer or supplier's	s deta	ails					
Addres		:		Avenue Jersey U.S.A. 07065				
	ione ency telephone address	:	908-740-4000 1-908-423-600 EHSDATASTE					
Recon	nmended use of the	chen	nical and restri	ctions on use				
Recom	nmended use	:	Veterinary pro	duct				
Restric	ctions on use	:	Not applicable					
1910.1		ordan :	ce with the OS Category 1	HA Hazard Communication Standard (29 C				
Aspira	tion hazard	:	Category 1					
	abel elements d pictograms	:		!				
Signal	Word	:	Danger					
Hazaro	d Statements	:		fatal if swallowed and enters airways. ise an allergic skin reaction.				
Precau	utionary Statements	:	P272 Contami the workplace P280 Wear pr Response: P301 + P310 CENTER.	eathing mist or vapors. inated work clothing must not be allowed out o otective gloves. IF SWALLOWED: Immediately call a POISON IF ON SKIN: Wash with plenty of soap and wat				

Storage:

tion.

P363 Wash contaminated clothing before reuse.



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		P405 Store loc	cked up.
		Disposal:	
		=	of contents and container to an approved waste
		disposal plant.	
Other	hazards		
None	known.		
SECTION	3. COMPOSITION/INF	ORMATION ON INC	GREDIENTS
Subst	ance / Mixture	: Mixture	
	onents		
	ical name	CAS-No.	Concentration (% w/w)
refined	ates (petroleum), solve d light paraffinic		
	ates (petroleum), solve paraffinic	nt refined 64741-88-	4 >= 10 - <= 50
	ethrin (ISO)	52645-53-	1 >= 1 - <= 5
	utoxyethoxy)ethyl 6-	51-03-6	>= 1 - <= 5
propyl	piperonyl ether		
propyl	piperonyl ether		
SECTION	4. FIRST AID MEASU		
SECTION		: In the case of	accident or if you feel unwell, seek medical
SECTION	4. FIRST AID MEASU	: In the case of advice immedi	ately.
SECTION	4. FIRST AID MEASU	: In the case of advice immedi	
SECTION	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem 	ately. ns persist or in all cases of doubt seek medical ove to fresh air.
Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur.
Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of contact 	ately. ns persist or in all cases of doubt seek medical ove to fresh air.
Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur.
Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention.
Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse.
SECTION of Gener	4. FIRST AID MEASU ral advice led e of skin contact	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing Thoroughly clet 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse.
SECTION of Gener	4. FIRST AID MEASU	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing Thoroughly cle Flush eyes wit 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution.
SECTION Gener If inha In cas	4. FIRST AID MEASU ral advice led e of skin contact	 In the case of advice immedia When symptor advice. If inhaled, rem Get medical at of water. Remove conta Get medical at Wash clothing Thoroughly cle Flush eyes wit Get medical at advice. 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse.
SECTION Gener If inha In cas	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact	 In the case of advice immedia When symptor advice. If inhaled, rem Get medical at control of water. Remove conta Get medical at Wash clothing Thoroughly clee Flush eyes with Get medical at If swallowed, I If swallowed, I If someting occ 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. surs have person lean forward.
SECTION Gener If inha In cas	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing Thoroughly cle Flush eyes wit Get medical at If swallowed, I If swallowed, I If vomiting occ Call a physicia 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. surs have person lean forward. in or poison control center immediately.
SECTION Gener If inha In cas In cas If swal	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact llowed	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing Thoroughly cle Flush eyes wit Get medical at If swallowed, I If swallowed, I If vomiting occ Call a physicia Never give any 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. surs have person lean forward. in or poison control center immediately. ything by mouth to an unconscious person.
SECTION Gener If inha In cas In cas If swal Most i and ef	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact llowed mportant symptoms ffects, both acute and	 In the case of advice immedi When symptor advice. If inhaled, rem Get medical at In case of cont of water. Remove conta Get medical at Wash clothing Thoroughly cle Flush eyes wit Get medical at If swallowed, I If vomiting occ Call a physicia Never give any May be fatal if 	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. surs have person lean forward. in or poison control center immediately.
SECTION Gener If inha In cas In cas If swal Most i and ef delaye	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact llowed mportant symptoms ffects, both acute and ed	 In the case of advice immedia When symptor advice. If inhaled, rem Get medical at the formation of water. Remove contared Get medical at Wash clothing Thoroughly cleet. Flush eyes with Get medical at the formating occ Call a physiciar Never give any the fatal if May cause an the formation of t	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. surs have person lean forward. in or poison control center immediately. ything by mouth to an unconscious person. swallowed and enters airways. allergic skin reaction.
SECTION Gener If inha In cas In cas If swal Most i and ef delaye	4. FIRST AID MEASU ral advice led e of skin contact e of eye contact llowed mportant symptoms ffects, both acute and	 In the case of advice immedia When symptor advice. If inhaled, rem Get medical at the formation of water. Remove contared Get medical at Wash clothing Thoroughly cleater the symptometry of the symptometry	ately. ms persist or in all cases of doubt seek medical ove to fresh air. ttention if symptoms occur. tact, immediately flush skin with soap and plenty minated clothing and shoes. ttention. before reuse. ean shoes before reuse. h water as a precaution. ttention if irritation develops and persists. DO NOT induce vomiting. curs have person lean forward. in or poison control center immediately. ything by mouth to an unconscious person. swallowed and enters airways.

SECTION 5. FIRE-FIGHTING MEASURES



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S	Suitable extinguishing media		: Water spray Alcohol-resistant foam Carbon dioxide (CO2)				
	Insuitable extinguishing nedia	:	Dry chemical None known.				
S	pecific hazards during fire	:	Exposure to com	bustion products may be a hazard to health.			
Н	azardous combustion prod- cts	:	Chlorine compou Carbon oxides	nds			
	pecific extinguishing meth- ds	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			
	pecial protective equipment or fire-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.			
SECT	ION 6. ACCIDENTAL RELE	EASI	EMEASURES				
ti	ersonal precautions, protec- ve equipment and emer- ency procedures	- :	Follow safe hand	tective equipment. ling advice (see section 7) and personal nent recommendations (see section 8).			
E	nvironmental precautions	:	Prevent spreadin oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages			
	lethods and materials for ontainment and cleaning up	:	For large spills, p containment to ke can be pumped, s container. Clean up remaini absorbent. Local or national disposal of this m employed in the o determine which Sections 13 and	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.			

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not get on skin or clothing.



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		practice, based assessment Keep container t	th eyes. dance with good industrial hygiene and safety on the results of the workplace exposure			
(Conditions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. 				
Materials to avoid			n the following product types:			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Distillates (petroleum), solvent- refined light paraffinic	64741-89-5	TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Mist)	5 mg/m³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL
Distillates (petroleum), solvent refined heavy paraffinic	64741-88-4	TWA (Inhal- able particu- late matter)	5 mg/m³	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m³	NIOSH REL
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm ²	Internal
2-(2-Butoxyethoxy)ethyl 6- propylpiperonyl ether	51-03-6	TWA	4 mg/m3 (OEB 1)	Internal

Ingredients with workplace control parameters

Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection

: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air



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Hand	protection		release, exposure	or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.	
Ма	iterial	:	Chemical-resistar	nt gloves	
Re	marks	:	: Choose gloves to protect hands against chemicals depend on the concentration specific to place of work. Breakthroug time is not determined for the product. Change gloves ofter For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.		
Еуе рі	rotection	:		g personal protective equipment:	
Skin a	nd body protection	:	 Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protection clothing (gloves, aprons, boots, etc). 		
Hygiei	ne measures	:	If exposure to che eye flushing syste working place. When using do no Contaminated wo workplace.	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. In clothing should not be allowed out of the ed clothing before re-use.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	amber
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower ibility limit	:	No data available	
	Vapor p	oressure	:	< 2 mmHg (77 °F	/ 25 °C)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available	2
	Density	/	:	0.885 g/cm ³	
	Solubili Wat	ity(ies) er solubility	:	negligible	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, dynamic	:	40 mPa.s	
	Visc	cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
		lar weight	:	No data available)
	Particle	e size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact



rsion)	Revision Date: 10/01/2022	SDS Numb 677265-000	
Ingest Eye co			
Acute	toxicity		
	assified based on ava	ailable informati	on.
<u>Produ</u>	<u>ict:</u>		
Acute	oral toxicity		oxicity estimate: > 5,000 mg/kg : Calculation method
Acute	inhalation toxicity	Exposu Test atr	oxicity estimate: 46 mg/l re time: 4 h nosphere: dust/mist : Calculation method
<u>Comp</u>	onents:		
Distill	ates (petroleum), so	olvent-refined	light paraffinic:
Acute	oral toxicity		Rat): > 5,000 mg/kg : OECD Test Guideline 401
Acute	inhalation toxicity	Exposu Test atr Method	Rat): > 5.53 mg/l re time: 4 h nosphere: dust/mist : OECD Test Guideline 403 ment: The substance or mixture has no acute inhala- city
Acute	dermal toxicity		Rabbit): > 5,000 mg/kg : OECD Test Guideline 402
Distill	ates (petroleum), so	olvent refined	neavy paraffinic:
	oral toxicity	: LD50 (F Method	Rat): > 5,000 mg/kg : OECD Test Guideline 401 :s: Based on data from similar materials
Acute	inhalation toxicity	Exposu Test atr Method Assess tion tox	Rat): > 5.53 mg/l re time: 4 h nosphere: dust/mist : OECD Test Guideline 403 ment: The substance or mixture has no acute inhala- city s: Based on data from similar materials
Acute	dermal toxicity	Method	Rabbit): > 5,000 mg/kg : OECD Test Guideline 402 :s: Based on data from similar materials
	ethrin (ISO):		
Acute	oral toxicity	: LD50 (F	Rat): 480 - 554 mg/kg
Acute	inhalation toxicity		Rat): 2.3 mg/l re time: 4 h



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I		Test a	atmosphere	: dust/mist
Acute	e dermal toxicity	: LD50	(Rabbit): >	2,000 mg/kg
2-(2-	Butoxyethoxy)ethyl 6-	oropylpipe	ronyl ether	
	e oral toxicity	: LD50	(Rat): > 2,0	
Acute	e inhalation toxicity	Expos Test a	(Rat): > 5.2 sure time: 4 atmosphere od: OECD T	h
Acute	e dermal toxicity		(Rat): > 2,0 od: OECD T	000 mg/kg Fest Guideline 402
II Skin	corrosion/irritation			
Not c	lassified based on avai	able informa	ation.	
<u>Com</u>	ponents:			
Disti	llates (petroleum), sol	vent-refine	d light para	affinic:
Spec		: Rabbi	-	
Resu	llt	: No sk	in irritation	
Dicti	llates (petroleum), sol	ont rofino	t hoovy no	roffinio
Spec		: Rabbi		
Resu			in irritation	
Rema	arks	: Based	d on data fro	om similar materials
Perm	nethrin (ISO):			
Spec	ies	: Rabbi	t	
Resu	llt	: No sk	in irritation	
2-(2-	Butoxyethoxy)ethyl 6-	oropylpipe	ronyl ether	
Spec	ies	: Rabbi	t	
Meth) Test Guid	eline 404
Resu	llt	: No sk	in irritation	
Serio	ous eye damage/eye ir	ritation		
Not c	classified based on avai	able informa	ation.	
<u>Com</u>	ponents:			
Disti	llates (petroleum), sol	ent-refine	d light para	affinic:
Spec		: Rabbi		
Resu	llt	: No ey	e irritation	
Disti	llates (petroleum), sol	/ent refined	d heavy pa	raffinic:
Spec		: Rabbi		
Resu			e irritation	
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Metho Rema		:	OECD Test Guide Based on data fro	eline 405 om similar materials
Perm	ethrin (ISO):			
Speci Resul		:	Rabbit No eye irritation	
2-(2-E	Butoxyethoxy)ethyl 6-	prop	ylpiperonyl ether	:
Speci	es	:	Rabbit	
Resul Metho		:	No eye irritation OECD Test Guide	eline 405
Respi	iratory or skin sensiti	zatio	on	
_	sensitization ause an allergic skin re	eacti	on.	
Respi	iratory sensitization			
Not cl	assified based on avail	able	information.	
<u>Comp</u>	oonents:			
Distill	lates (petroleum), sol	vent	-refined light para	ffinic:
Test T		:	Buehler Test	
Speci	es of exposure es	÷	Skin contact Guinea pig	
Metho		:	OECD Test Guide	eline 406
Resul	L	·	negative	
Distill	lates (petroleum), sol	vent	refined heavy par	raffinic:
Test T	Гуре	:	Buehler Test	
Route Speci	es of exposure		Skin contact Guinea pig	
Metho	bd	:	OECD Test Guide	eline 406
Resul Rema		:	negative Based on data fro	om similar materials
	-			
	ethrin (ISO):			
Test T Route	ype s of exposure	:	Buehler Test Skin contact	
Speci	es	÷	Guinea pig	
Resul	t	:	positive	
Asses	sment	:	Probability or evid	dence of skin sensitization in humans
2-(2-E	Butoxyethoxy)ethyl 6-	prop	oylpiperonyl ether	:
Test 1		:	Maximization Tes	st
Route Speci	es of exposure	:	Skin contact Guinea pig	
Metho	bd	:	OECD Test Guide	eline 406
Resul	t	:	negative	



ersion 0	Revision Date: 10/01/2022		S Number: 7265-00017	Date of last issue: 04/09/2022 Date of first issue: 05/16/2016
Not cl	a cell mutagenicity assified based on ava <u>conents:</u>	ailable	information.	
Distil	lates (petroleum), se	olvent-	refined light pa	araffinic:
	toxicity in vitro	:	Test Type: Chr Result: negativ	omosome aberration test in vitro
Geno	toxicity in vivo	:	cytogenetic as Species: Mous	e ute: Intraperitoneal injection
Distil	lates (petroleum), so	olvent	refined heavy (paraffinic:
	toxicity in vitro	:	Test Type: Bac Method: OECD Result: negativ	terial reverse mutation assay (AMES) Test Guideline 471
Geno	toxicity in vivo	:	cytogenetic ass Species: Mous Application Ro Method: OECD Result: negativ	e ute: Intraperitoneal injection) Test Guideline 474
II Perm	ethrin (ISO):			
	toxicity in vitro	:	Test Type: Bac Result: negativ	eterial reverse mutation assay (AMES)
			Test Type: In v Result: negativ	itro mammalian cell gene mutation test e
			Test Type: Chr Result: negativ	omosome aberration test in vitro e
				A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
			Test Type: Chr Result: positive	omosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mar cytogenetic as Species: Mous	



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		Test Type: F Species: Mo Result: nega					
		cytogenetic Species: Ra Application F	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Intraperitoneal injection Result: negative				
		cytogenetic Species: Mo	Route: Ingestion				
	n cell mutagenicity - ssment	: Weight of ev cell mutager	idence does not support classification as a germ n.				
2-(2-	Butoxyethoxy)ethyl 6	-propylpiperopyl (ther:				
	otoxicity in vitro		acterial reverse mutation assay (AMES)				
II Carc	inogenicity						
	lassified based on ava	ilable information.					
Com	ponents:						
		hront rofined light	novelfinin.				
	llates (petroleum), so	-	-				
Spec	cation Route	: Mouse, fema : Skin contact					
	sure time	: 18 Months					
Meth			Guideline 451				
Resu		: negative					
Disti	llates (petroleum), so	lvent refined heav	y paraffinic:				
Spec		: Mouse					
Appli	cation Route	: Skin contact					
Expo	sure time	: 78 weeks					
Meth			Guideline 451				
Resu		: negative					
Rem	arks	: Based on da	ta from similar materials				
	nethrin (ISO):						
Spec		: Rat					
Resu	llt	: negative					



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Speci Resul	es t	: Mouse : negative	
Speci Applic	cation Route sure time od	bropylpiperonyl en Rat Ingestion 107 weeks OECD Test G negative	
IARC			esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.
OSHA		nt of this product p st of regulated card	resent at levels greater than or equal to 0.1% is inogens.
NTP			esent at levels greater than or equal to 0.1% is ated carcinogen by NTP.
<u>Comp</u> Distil	assified based on availa <u>conents:</u> lates (petroleum), solv is on fertility	ent-refined light : Test Type: O Species: Rat	ne-generation reproduction toxicity study oute: Ingestion
Perm	ethrin (ISO):		
	s on fertility	Species: Rat	wo-generation reproduction toxicity study oute: Ingestion ive
Effect	s on fetal development	reproduction/ Species: Rat	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion ive
2-(2-E	Butoxyethoxy)ethyl 6-p	oropylpiperonyl et	ther:
Effect	s on fertility	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ive
Effect	s on fetal development	Species: Rat	mbryo-fetal development oute: Ingestion ive



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	- single exposure assified based on ava	ailable information.	
Not cl	-repeated exposure assified based on ava ated dose toxicity		
-	ponents:		
Distil	lates (petroleum), so	olvent-refined light pa	araffinic:
	EL cation Route sure time od	: Rabbit : 1,000 mg/kg : Skin contact : 4 Weeks : OECD Test Gu : Based on data	ideline 410 from similar materials
	EL cation Route sure time	: Rat : > 980 mg/m ³ : inhalation (dus : 4 Weeks : Based on data	t/mist/fume) from similar materials
Distil	lates (petroleum), so	olvent refined heavy p	paraffinic:
Speci NOAE Applic	es EL cation Route sure time od	: Rabbit : 1,000 mg/kg : Skin contact : 4 Weeks : OECD Test Gu	
	EL cation Route sure time	: Rat : > 980 mg/m ³ : inhalation (dus : 4 Weeks : Based on data	t/mist/fume) from similar materials
Perm	ethrin (ISO):		
Speci NOAE Applic	es	: Rat : 0.2201 mg/l : Inhalation : 90 Days	
		: Rat : 175 mg/kg : Ingestion : 90 Days	
2-(2-F	Butoxvethoxv)ethvl (o-propylpiperonyl eth	er:
Speci	es	: Rat : 1,323 mg/kg	



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Applica	ation Route	: Ingestion	
Exposu	ure time	: 7 Weeks	

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

Distillates (petroleum), solvent-refined light paraffinic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Distillates (petroleum), solvent-refined light paraffinic:

,,	
Toxicity to fish :	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
Toxicity to daphnia and other : aquatic invertebrates	LL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction
Toxicity to algae/aquatic : plants	NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia magna (Water flea)): 10 mg/l
Distillates (petroleum), solven	t refined heavy paraffinic:
Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h

		Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials	Ū
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials	



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Toxicity plants	∕ to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
	v to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 21 Method: OECD Te	
Toxicity	to microorganisms	:	NOEC: > 1.93 mg Exposure time: 10 Method: DIN 38 4 Remarks: Based o	min
Dormo	thrin (ISO):			
	t hrin (ISO): / to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): 0.00079 mg/l i h
	v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.0001 mg/l h
Toxicity plants	v to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1.13 ! h
			EC10 (Pseudokiro mg/l Exposure time: 72	hneriella subcapitata (green algae)): 0.0023 h
Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 35 Method: OECD Te	
	v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3	
		***	viningranul ather	
Toxicity	itoxyethoxy)ethyl 6-p / to fish	:		n variegatus (sheepshead minnow)): 3.94 5 h
	<i>t</i> to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	∕ to algae/aquatic	:	ErC50 (Pseudokir mg/l	chneriella subcapitata (green algae)): 3.89
			15 / 21	



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			Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD To	
To» icity		:	NOEC (Pimephale Exposure time: 35	es promelas (fathead minnow)): 0.18 mg/l 5 d
aqı	atic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.03 mg/l I d
	oxicity) kicity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h
Per	sistence and degradabili	ity		
Co	mponents:			
Dis	tillates (petroleum), solve	ent	-refined light para	ffinic:
Bio	degradability	:	Result: Not readily Biodegradation: 4 Exposure time: 28 Method: OECD Te	4 %
II Dis	tillates (petroleum), solvo	ent	refined heavy par	affinic:
	degradability	:	Result: Not readily Biodegradation: 2 Exposure time: 28	y biodegradable. 2 - 4 %
Per	methrin (ISO):			
Bio	degradability	:	Result: Not readily Method: OECD To	y biodegradable. est Guideline 301F
2-(2	2-Butoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Bio	degradability	:	Result: Not readily Biodegradation: 0 Exposure time: 28 Method: OECD To)%
Bio	accumulative potential			
Co	mponents:			
	methrin (ISO):			
	accumulation	:	Species: Lepomis Bioconcentration	macrochirus (Bluegill sunfish) factor (BCF): 570



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Partitic octano	on coefficient: n- l/water	:	log Pow: 4.67	
2-(2-B	utoxyethoxy)ethyl 6-p	orop	ylpiperonyl ethe	r:
Partitic octanc	on coefficient: n- I/water	:	log Pow: 5	
	ty in soil a available			
	adverse effects a available			
ECTION 1	3. DISPOSAL CONSI	DER	ATIONS	
Dispo	sal methods			
Waste	from residues ninated packaging	:	Empty container handling site for	cordance with local regulations. rs should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product.
ECTION 1	4. TRANSPORT INFO	RM	ATION	
Interna	ational Regulations			
UNRT	DG			
UN nu	mhor		UN 3082	
	shipping name	:		FALLY HAZARDOUS SUBSTANCE, LIQUID,
Proper		:	ENVIRONMEN N.O.S. (Permethrin (IS ether)	TALLY HAZARDOUS SUBSTANCE, LIQUID, O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class	shipping name	•	ENVIRONMEN N.O.S. (Permethrin (IS ether) 9	
Proper Class	shipping name g group	:	ENVIRONMEN N.O.S. (Permethrin (IS ether)	
Proper Class Packin Labels	shipping name		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III	
Proper Class Packin	shipping name g group DGR	:	ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III	
Proper Class Packin Labels IATA-I UN/ID	shipping name g group DGR		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally	
Proper Class Packin Labels IATA-I UN/ID Proper Class	shipping name g group DGR No. shipping name		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin	shipping name g group DGR No. shipping name		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl hazardous substance, liquid, n.o.s.
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin Labels Packin	shipping name g group DGR No. shipping name g group g instruction (cargo		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin Labels Packin aircraff Packin ger air	g group DGR No. shipping name g group g instruction (cargo t) g instruction (passen- craft)		ENVIRONMEN N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III Miscellaneous	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger ain Enviro	g group DGR No. shipping name g group g instruction (cargo t) g instruction (passen- craft) nmentally hazardous		ENVIRONMENT N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III Miscellaneous 964	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin Labels Packin aircraft Packin ger ain Enviro IMDG-	g group DGR No. shipping name g group g instruction (cargo t) g instruction (passen- craft) nmentally hazardous Code		ENVIRONMENT N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III Miscellaneous 964 964 yes	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl hazardous substance, liquid, n.o.s.
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin aircrafi Packin ger ain Enviro IMDG- UN nu	g group DGR No. shipping name g group g instruction (cargo t) g instruction (passen- craft) nmentally hazardous Code		ENVIRONMENT N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III Miscellaneous 964 964 964 yes UN 3082 ENVIRONMENT N.O.S. (Permethrin (IS	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl
Proper Class Packin Labels IATA-I UN/ID Proper Class Packin aircrafi Packin ger ain Enviro IMDG- UN nu	g group DGR No. shipping name g group g instruction (cargo t) g instruction (passen- craft) nmentally hazardous Code mber		ENVIRONMENT N.O.S. (Permethrin (IS ether) 9 III 9 UN 3082 Environmentally (Permethrin (IS ether) 9 III Miscellaneous 964 964 964 yes UN 3082 ENVIRONMENT N.O.S.	O), 2-(2-butoxyethoxy)ethyl 6-propylpiperony hazardous substance, liquid, n.o.s. O), 2-(2-Butoxyethoxy)ethyl 6-propylpiperony



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Packing group Labels EmS Code Marine pollutant		: III : 9 : F-A, S-F : yes	
-	port in bulk accordir plicable for product a	-	RPOL 73/78 and the IBC Code
•	stic regulation		
49 CF I UN/ID/ Proper Class Packin Labels ERG C	R /NA number shipping name g group Code e pollutant	 (Permethrin (lether) 9 III CLASS 9 171 yes(Permethring propylpiperony) Above applies liters. Shipment by g may be shipped 	ly hazardous substance, liquid, n.o.s. SO), 2-(2-Butoxyethoxy)ethyl 6-propylpiperonyl n (ISO), 2-(2-Butoxyethoxy)ethyl 6- /l ether) only to containers over 119 gallons or 450 round under DOT is non-regulated; however it ed per the applicable hazard classification to 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	:	Respiratory or skir Aspiration hazard	n sensitization	
SARA 313	:	5	ponents are subject to RA Title III, Section 3 ²	
		Permethrin (ISO)	52645-53-1	>= 1 - <= 5 %

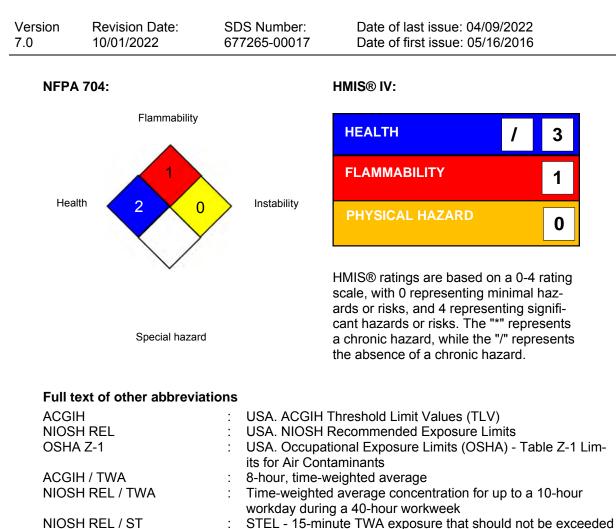


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		2-(2- Butoxyeth- oxy)ethyl 6- propylpiperonyl ether	51-03-6	>= 1 - <= 5 %		
US St	tate Regulations					
Penn	Pennsylvania Right To Know					
	Distillates (petrol	eum), solvent-refined lig eum), solvent refined he y)ethyl 6-propylpiperon	eavy paraffinic	64741-89-5 64741-88-4 51-03-6 52645-53-1		
Califo	ornia List of Hazardo	us Substances				
		eum), solvent-refined lig eum), solvent refined h		64741-89-5 64741-88-4		
California Permissible Exposure Limits for Chemical Contaminants						
		eum), solvent-refined lig eum), solvent refined h		64741-89-5 64741-88-4		
The ingredients of this product are reported in the following inventories:						
AICS		: not determined				
DSL		: not determined				
IECS	C	: not determined				

SECTION 16. OTHER INFORMATION

Further information





NIOSH REL / ST	:	STEL - 15-minute TWA exposure the
		at any time during a workday
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



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

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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