

Version 5.0	Revision Date: 06.04.2024		6 Number 266-0001		Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
SECTIO	N 1: Identification of	the s	ubstanc	ce/mixtu	re and of the company/undertaking
1.1 Produ	uct identifier				
Trad	e name	:	Permethr	in / Piper	onyl Butoxide Formulation
1.2 Relev	ant identified uses of	the su	bstance	or mixtu	re and uses advised against
	of the Sub- ce/Mixture	: `	Veterinar	y produc	i -
Reco on us	ommended restrictions se	:	Not appli	cable	
1.3 Detail	Is of the supplier of the	e safe	ty data s	heet	
Com	pany	:	MSD 20 Sparta 1619 Spa		uth Africa
Telep	ohone	: •	+2711923	39300	
	ail address of person onsible for the SDS	:	EHSDAT	ASTEWA	\RD@msd.com
	gency telephone numl 08-423-6000	ber			
SECTIO	N 2: Hazards identifi	catio	n		
2.1 Class	ification of the substa	nce oi	r mixture	•	
Clas	sification (REGULATIO	ON (EC	C) No 127	72/2008)	
Aspir	sensitisation, Category ration hazard, Category	1		H304: I ways.	May cause an allergic skin reaction. May be fatal if swallowed and enters air-
Shor gory	t-term (acute) aquatic h 1	azard,	Cate-	H400: \	/ery toxic to aquatic life.
Long	-term (chronic) aquatic y 1	hazaro	l, Cat-	H410: V effects.	/ery toxic to aquatic life with long lasting
2.2 Label	elements				
	elling (REGULATION (E	EC) No	0 1272/20	08)	
Haza	ard pictograms	•			
Signa	al word	: C	anger		
Haza	ard statements	· F	1304 M:	av he fata	al if swallowed and enters airwavs.

: H304 May be fatal if swallowed and enters airways.



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			use an allergic skin reaction. xic to aquatic life with long lasting effects.
Preca	utionary statements		elease to the environment. rotective gloves.
		CENTER/ doct P331 Do NO P333 + P313 advice/ attentio	T induce vomiting. If skin irritation or rash occurs: Get medical

Hazardous components which must be listed on the label: Distillates (petroleum), solvent-refined light paraffinic Permethrin (ISO)

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Distillates (petroleum), solvent- refined light paraffinic	64741-89-5 265-091-3 649-455-00-2	Asp. Tox. 1; H304	>= 70 - < 90
Permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
		M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000	



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2-(2-t propy	outoxyethoxy)ethyl 6- Ipiperonyl ether	51-03-6 200-076-7 604-096-00-	Eye Irrit. 2; H319 STOT SE 3; H335>= 2,5 - < 10

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

4.1 Description of first aid measu	res	6			
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.			
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).			
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.			
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.			
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.			
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.			
4.2 Most important symptoms and effects, both acute and delayed					
Risks	:	May be fatal if swallowed and enters airways. May cause an allergic skin reaction.			
		This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.			



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4.3 Indica	ation of any immediate	meo	dical attention and	d special treatment needed
Trea	tment	:	Treat symptomat	cally and supportively.
SECTIO	N 5: Firefighting meas	sur	es	
5.1 Extin	guishing media			
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsı medi	uitable extinguishing ia	:	None known.	
5.2 Speci	ial hazards arising from	the	e substance or mi	xture
Spec fighti	cific hazards during fire- ng	:	Exposure to com	pustion products may be a hazard to health.
Haza ucts	ardous combustion prod-	:	Chlorine compou Carbon oxides	nds
5.3 Advic	e for firefighters			
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spec ods	sific extinguishing meth-	:	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

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
-		Avoid breathing mist or vapours.
		Do not swallow.
		Avoid contact with eyes.
		Handle in accordance with good industrial hygiene and safety
		practice, based on the results of the workplace exposure as- sessment
		Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated
		work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.
7.2 Conditions for safe storage, i	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
7.3 Specific end use(s)		
Specific use(s)		No data available
Specific use(s)	·	INO UALA AVAIIADIE



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## **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Permethrin (ISO)	52645-53-1	TWA	80 µg/m3 (OEB 3)	Internal
		Wipe limit	800 µg/100 cm²	Internal
2-(2- butoxyethoxy)ethyl 6-propylpiperonyl ether	51-03-6	TWA	4 mg/m3 (OEB 1)	Internal

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-(2- butoxyethoxy)ethyl 6- propylpiperonyl ether	Workers	Inhalation	Long-term systemic effects	3,875 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	7,75 mg/m3
	Workers	Inhalation	Long-term systemic effects	3,875 mg/m3
	Workers	Inhalation	Acute local effects	3,875 mg/m3
	Workers	Skin contact	Long-term systemic effects	27,7 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	55,5 mg/kg bw/day
	Workers	Skin contact	Long-term local ef- fects	0,44 mg/cm2
	Workers	Skin contact	Acute local effects	0,888 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	1,94 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	3,875 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1,94 mg/m3
	Consumers	Inhalation	Acute local effects	1,94 mg/m3
	Consumers	Skin contact	Long-term systemic effects	13,9 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	27,8 mg/kg bw/day
	Consumers	Skin contact	Long-term local ef- fects	0,22 mg/cm2
	Consumers	Skin contact	Acute local effects	0,22 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	1,14 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	2,3 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:



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Substance name	Environmental Compartment	Value
2-(2-butoxyethoxy)ethyl 6- propylpiperonyl ether	Fresh water	0,001 mg/l
	Marine water	0,0001 - 0,000148 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,019 mg/kg
	Marine sediment	0,0002 mg/kg
	Soil	0,016 mg/kg
	Oral (Secondary Poisoning)	12,53 mg/kg food
Distillates (petroleum), solvent refined heavy paraffinic	Oral (Secondary Poisoning)	9,33 mg/kg food

#### 8.2 Exposure controls

#### **Engineering measures**

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

Personal protective equipme	ent	
Eye/face protection		Wear the following personal protective equipment: Safety glasses
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! 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.
Skin and body protection	:	Select appropriate protective clothing based on chemical re- sistance data and an assessment of the local exposure poten- tial. Skin contact must be avoided by using impervious protective
Respiratory protection	•	clothing (gloves, aprons, boots, etc). If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type (A-P)

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	: liquid : amber : odourless : No data available
рН	: No data available
Melting point/freezing point	: No data available



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		oiling point and boiling	:	No data available	9
	range Flash p	point	:	No data available	9
	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	2
		explosion limit / Lower ability limit	:	No data available	9
	Vapour	· pressure	:	< 2 mmHg (25 °C	C)
	Relativ	e vapour density	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	/	:	0,885 g/cm <sup>3</sup>	
	Partitio octanol	er solubility n coefficient: n-	:	negligible Not applicable No data available	2
	-	position temperature	:	No data available	
			•		-
	Viscosi Visc	ty cosity, dynamic	:	40 mPa.s	
	Viso	cosity, kinematic	:	No data available	e
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	nformation			
	Flamm	ability (liquids)	:	No data available	e
	Molecu	ılar weight	:	No data available	e
	Particle	e size	:	Not applicable	

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Not classified as a reactivity hazard.



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10.2 Chen	nical stability			
Stable	e under normal condit	ions.		
10.3 Poss	ibility of hazardous	reaction	ons	
Hazar	rdous reactions	:	Can react with	strong oxidizing agents.
10.4 Cond	litions to avoid			
Condi	itions to avoid	:	None known.	
10.5 Incon	npatible materials			
Mater	ials to avoid	:	Oxidizing ager	nts
10.6 Haza	rdous decompositio	n proo	ducts	
No ha	zardous decompositi	on pro	ducts are known	
SECTION	I 11: Toxicological	infor	mation	
			•	
	mation on toxicologi			
Inform	nation on likely routes	OT :	Inhalation	
	•		Skin contact	
expos	•		Skin contact Ingestion Eve contact	
expos	•			
expos Acute	sure	ailable	Ingestion Eye contact	
expos Acute	sure e toxicity assified based on ava	ailable	Ingestion Eye contact	
expos <b>Acute</b> Not cl <u>Produ</u>	sure e toxicity assified based on ava	ailable :	Ingestion Eye contact information.	stimate: > 2.000 mg/kg
expos <b>Acute</b> Not cl <u>Produ</u>	sure <b>toxicity</b> lassified based on ava uct:	ailable :	Ingestion Eye contact information.	
expos Acute Not cl <u>Produ</u> Acute	sure <b>toxicity</b> lassified based on ava uct:	ailable :	Ingestion Eye contact information. Acute toxicity e Method: Calcul	
expos Acute Not cl <u>Produ</u> Acute	sure e toxicity assified based on ava uct: oral toxicity	:	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time:	ation method stimate: > 5 mg/l 4 h
expos Acute Not cl <u>Produ</u> Acute	sure e toxicity assified based on ava uct: oral toxicity	:	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e	ation method stimate: > 5 mg/l 4 h re: dust/mist
expos Acute Not cl <u>Produ</u> Acute	sure <b>e toxicity</b> assified based on ava <u>uct:</u> oral toxicity inhalation toxicity	:	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe	ation method stimate: > 5 mg/l 4 h re: dust/mist
expos Acute Not cl Acute Acute	sure <b>e toxicity</b> assified based on ava <u>uct:</u> oral toxicity inhalation toxicity <u>bonents:</u>	:	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method
expos Acute Not cl <u>Produ</u> Acute Acute <u>Comp</u> Distill	sure <b>e toxicity</b> assified based on ava <u>uct:</u> oral toxicity inhalation toxicity <u>conents:</u> lates (petroleum), so	: : blvent-	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method
expos Acute Not cl <u>Produ</u> Acute Acute <u>Comp</u> Distill	sure <b>e toxicity</b> assified based on ava <u>uct:</u> oral toxicity inhalation toxicity <u>bonents:</u>	: : blvent-	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method
expos Acute Not cl Acute Acute Distill Acute	sure <b>e toxicity</b> assified based on ava <u>uct:</u> oral toxicity inhalation toxicity <u>conents:</u> lates (petroleum), so	: : blvent-	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>Frefined light pa</b> LD50 (Rat): > 5 Method: OECD	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>traffinic:</b> 5.000 mg/kg Test Guideline 401
expos Acute Not cl Acute Acute Distill Acute	sure <b>assified based on ava</b> <b>assified based on ava</b> <b>assignments</b> <b>assified based on ava</b> <b>assified bassified bassified based on avae</b> <b>assified based on avae</b> <b>as</b>	: clvent- i	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>Frefined light pa</b> LD50 (Rat): > 5 Method: OECD LC50 (Rat): > 5 Exposure time:	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>raffinic:</b> 5.000 mg/kg Test Guideline 401 5,53 mg/l 4 h
expos Acute Not cl Acute Acute Distill Acute	sure <b>assified based on ava</b> <b>assified based on ava</b> <b>assignments</b> <b>assified based on ava</b> <b>assified bassified bassified based on avae</b> <b>assified based on avae</b> <b>as</b>	: clvent- i	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>Frefined light pa</b> LD50 (Rat): > 5 Method: OECD LC50 (Rat): > 5 Exposure time: Test atmosphe	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>raffinic:</b> 5.000 mg/kg Test Guideline 401 5,53 mg/l 4 h re: dust/mist
expos Acute Not cl Acute Acute Distill Acute	sure <b>assified based on ava</b> <b>assified based on ava</b> <b>assignments</b> <b>assified based on ava</b> <b>assified bassified bassified based on avae</b> <b>assified based on avae</b> <b>as</b>	: clvent- i	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>•refined light pa</b> LD50 (Rat): > 5 Method: OECD LC50 (Rat): > 5 Exposure time: Test atmosphe Method: OECD	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>raffinic:</b> 5.000 mg/kg Test Guideline 401 5,53 mg/l 4 h
expos Acute Not cl Acute Acute Distill Acute	sure <b>assified based on ava</b> <b>assified bassid</b> <b>assified based on ava</b> <b>assified based on av</b>	: clvent- i	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>•refined light pa</b> LD50 (Rat): > 5 Method: OECD LC50 (Rat): > 5 Exposure time: Test atmosphe Method: OECD	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>traffinic:</b> 5.000 mg/kg Test Guideline 401 5,53 mg/l 4 h re: dust/mist Test Guideline 403
expos Acute Not cl Produ Acute Acute Distill Acute	sure <b>assified based on ava</b> <b>assified bassid</b> <b>assified based on ava</b> <b>assified based on av</b>	: clvent- i	Ingestion Eye contact information. Acute toxicity e Method: Calcul Acute toxicity e Exposure time: Test atmosphe Method: Calcul <b>Frefined light pa</b> LD50 (Rat): > 5 Method: OECD LC50 (Rat): > 5 Exposure time: Test atmosphe Method: OECD Assessment: T	ation method stimate: > 5 mg/l 4 h re: dust/mist ation method <b>traffinic:</b> 5.000 mg/kg Test Guideline 401 5,53 mg/l 4 h re: dust/mist Test Guideline 403 he substance or mixture has no acute inhala-



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Perm	ethrin (ISO):			
Acute	oral toxicity	:	LD50 (Rat): 480	) - 554 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 2,3 Exposure time: Test atmosphe	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2.000 mg/kg
2-(2-b	outoxyethoxy)ethyl 6	6-propy	ylpiperonyl eth	er:
Acute	e oral toxicity	:	LD50 (Rat): > 2 Method: OECD	.000 mg/kg Test Guideline 423
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmosphe Method: OECD	4 h
Acute	e dermal toxicity	:	LD50 (Rat): > 2 Method: OECD	.000 mg/kg Test Guideline 402
Not cl	<b>corrosion/irritation</b> lassified based on ava <u>conents:</u>			
Not cl	lassified based on ava ponents: lates (petroleum), so les			
Not cl Comp Distil Speci Resul	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt		<b>refined light pa</b> Rabbit	
Not cl Comp Distil Speci Resul	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les	olvent- : :	<b>refined light pa</b> Rabbit	n
Not cl Comp Distil Speci Resul Perm Speci Resul	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt	blvent- : :	refined light pa Rabbit No skin irritation Rabbit No skin irritation	n
Not cl Comp Distil Speci Resul Perm Speci Resul	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6	blvent- : :	refined light pa Rabbit No skin irritation Rabbit No skin irritation	n
Not cl Comp Distil Speci Resul Speci Resul 2-(2-k Speci Metho	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6 les pd	blvent- : :	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu	n n er: ideline 404
Not cl Comp Distil Speci Resul Speci Resul 2-(2-t	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6 les pd	blvent- : :	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit	n n er: ideline 404
Not cl Comp Distil Speci Resul Speci Resul 2-(2-k Speci Metho	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6 les pd lt	blvent- : :	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu No skin irritation	n er: ideline 404 n
Not cl Comp Distil Speci Resul Speci Resul 2-(2-t Speci Metho Resul	lassified based on ava <u>ponents:</u> lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6 les pd lt	S-propy	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu No skin irritation Repeated expo	n er: ideline 404 n
Not cl Comp Distil Speci Resul Speci Resul 2-(2-tc Speci Metho Resul Asses Serio Not cl	lassified based on ava ponents: lates (petroleum), so les lt ethrin (ISO): les lt putoxyethoxy)ethyl 6 les od lt ssment us eye damage/eye	S-propy	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu No skin irritation Repeated expo	n er: ideline 404 n
Not cl Comp Distil Speci Resul Speci Resul 2-(2-tc Speci Metho Resul Asses Serio Not cl Comp	lassified based on availassified based on availabonents:	S-propy	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu No skin irritation Repeated expo on information.	n er: ideline 404 n sure may cause skin dryness or cracking.
Not cl Comp Distil Speci Resul Speci Resul 2-(2-tc Speci Metho Resul Asses Serio Not cl Comp	lassified based on availassified based on availassified based on available based on available based on availassified based on availassified based on availassified based on available ba	S-propy	refined light pa Rabbit No skin irritation Rabbit No skin irritation ylpiperonyl etho Rabbit OECD Test Gu No skin irritation Repeated expo on information.	n er: ideline 404 n sure may cause skin dryness or cracking.

## Permethrin (ISO):



ersion 0	Revision Date: 06.04.2024	SDS Number: 677266-00019	Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
Speci		: Rabbit	
Resul	t	: No eye irrita	tion
	outoxyethoxy)ethyl (		ther:
Speci		: Rabbit	
Metho Resul			Guideline 405 yes, reversing within 21 days
Resp	iratory or skin sensi	tisation	
-	sensitisation		
	ause an allergic skin	reaction.	
-	iratory sensitisation assified based on ava		
	onents:		
	lates (petroleum), se	olvent-refined light	paraffinic:
Test 1		: Buehler Tes	-
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho	bd	: OECD Test	Guideline 406
Resul	t	: negative	
Perm	ethrin (ISO):		
Test T	Гуре	: Buehler Tes	t
	sure routes	: Skin contact	
Speci	es	: Guinea pig	
Resul	t	: positive	
Asses	ssment	: Probability o	r evidence of skin sensitisation in humans
2-(2-b	outoxyethoxy)ethyl (	o-propylpiperonyl e	ther:
Test 1	Гуре	: Maximisation	n Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Metho Resul			Guideline 406
	t cell mutagenicity assified based on ava	: negative ailable information.	
	oonents:		
	lates (petroleum), se	-	-
Geno	toxicity in vitro	Result: nega	
		Remarks: Ba	ased on data from similar materials
Geno	toxicity in vivo	: Test Type: N cytogenetic : Species: Mo	



sion	Revision Date: 06.04.2024		S Number: 7266-00019	Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
			Application Route Result: negative	: Intraperitoneal injection
Perm	ethrin (ISO):			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: In vitr Result: negative	o mammalian cell gene mutation test
			Test Type: Chror Result: negative	nosome aberration test in vitro
				damage and repair, unscheduled DNA syn lian cells (in vitro)
			Test Type: Chror Result: positive	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mamr cytogenetic assa Species: Mouse Result: negative	nalian erythrocyte micronucleus test (in viv /)
				enicity (in vivo mammalian bone-marrow chromosomal analysis)
			Test Type: Roder Species: Mouse Result: negative	nt dominant lethal test (germ cell) (in vivo)
			cytogenetic assa Species: Rat	nalian erythrocyte micronucleus test (in viv /) e: Intraperitoneal injection
				enicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion
Germ sessn	i cell mutagenicity- As- nent	:	Weight of eviden cell mutagen.	ce does not support classification as a ger
2-(2-k	outoxyethoxy)ethyl 6-p	oropv	/lpiperonyl ether	
	toxicity in vitro	:		rial reverse mutation assay (AMES)



ersion )	Revision Date: 06.04.2024	SDS Number: 677266-00019	Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
Carci	nogenicity		
Not cl	assified based on avai	lable information.	
Comp	oonents:		
	lates (petroleum), sol	vont-rofined light p	vraffinia
Speci	es cation Route	: Mouse, female : Skin contact	
	sure time	: 18 Months	
Metho		: OECD Test Gu	uideline 451
Resu	t	: negative	
Carcir ment	nogenicity - Assess-		ed on DMSO extract content < 3% (Regulation 8, Annex VI, Part 3, Note L)
Perm	ethrin (ISO):		
Speci		: Rat	
Resul	t	: negative	
Speci		: Mouse	
Resul	t	: negative	
2-(2-b	outoxyethoxy)ethyl 6-	propylpiperonyl eth	er:
Speci		: Rat	
	cation Route	: Ingestion	
	sure time	: 107 weeks	
Metho		: OECD Test Gu	iideline 451
Resul	t	: negative	
Repro	oductive toxicity		
Not cl	assified based on avai	lable information.	
Comp	oonents:		
	lates (petroleum), sol	vent-refined light pa	araffinic:
	s on fertility		e-generation reproduction toxicity study
	<b>,</b>	Species: Rat	
		Application Ro	
		Result: negativ	e
Perm	ethrin (ISO):		
	<b>ethrin (ISO):</b> s on fertility	: Test Type: Two	o-generation reproduction toxicity study
	<b>ethrin (ISO):</b> s on fertility		o-generation reproduction toxicity study
		: Test Type: Two Species: Rat Application Ro	
		Species: Rat	ute: Ingestion
Effect	s on fertility	Species: Rat Application Ro Result: negativ	ute: Ingestion re
Effect		Species: Rat Application Ro Result: negativ : Test Type: Cor	ute: Ingestion
Effect	s on fertility	Species: Rat Application Ro Result: negativ : Test Type: Cor reproduction/d Species: Rat	ute: Ingestion re mbined repeated dose toxicity study with the evelopmental toxicity screening test
Effect	s on fertility	Species: Rat Application Ro Result: negativ : Test Type: Cor reproduction/d	ute: Ingestion re mbined repeated dose toxicity study with the evelopmental toxicity screening test ute: Ingestion



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	outoxyethoxy)ethyl 6-p			
Effect	s on fertility	2	Test Type: Two- <u>c</u> Species: Rat Application Route Result: negative	peneration reproduction toxicity study a: Ingestion
Effect ment	s on foetal develop-	2	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development e: Ingestion
	- single exposure assified based on avail	able ir	nformation.	
Comp	oonents:			
•	outoxyethoxy)ethyl 6-p	oropyl	piperonyl ether	:
Asses	ssment	: 1	May cause respir	atory irritation.
Not cl	- repeated exposure assified based on avail ated dose toxicity	able ir	nformation.	
Comp	oonents:			
Distill	lates (petroleum), solv	vent-r	efined light para	iffinic:
	EL cation Route sure time od		Rabbit 1.000 mg/kg Skin contact 4 Weeks OECD Test Guide Based on data fro	eline 410 om similar materials
	EL cation Route sure time	: ; : i : 4	Rat > 980 mg/m3 inhalation (dust/m 4 Weeks Based on data fro	nist/fume) om similar materials
Perm	ethrin (ISO):			
Specie NOAE Applic	es	: ( :	Rat 0,2201 mg/l Inhalation 90 Days	
		: ' :	Rat 175 mg/kg Ingestion 90 Days	
<b>2-(2-b</b>	outoxyethoxy)ethyl 6-j es		<b>piperonyl ether</b> Rat	



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NOAEL Applica Exposu	tion Route rre time	:	1.323 mg/kg Ingestion 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**

## 12.1 Toxicity

#### **Components:**

### Distillates (petroleum), solvent-refined light paraffinic:

Toxicity to daphnia and other aquatic invertebrates:LL50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test substance: Water Accommodated FractionToxicity to algae/aquatic plants:NOEC (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Test substance: Water Accommodated FractionToxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity):NOEC: 10 mg/l Species: Daphnia magna (Water flea)Permethrin (ISO): Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity):LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00079 mg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 0,0001 mg/l Exposure time: 48 hToxicity to algae/aquatic plants:EC50 (Daphnia magna (Water flea)): 0,0001 mg/l Exposure time: 48 h	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
plantsmg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)NOEC: 10 mg/l Species: Daphnia magna (Water flea)Permethrin (ISO): Toxicity to fishLC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00079 mg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 0,0001 mg/l 		:	Exposure time: 48 h
aquatic invertebrates (Chron- ic toxicity) Species: Daphnia magna (Water flea)   Permethrin (ISO): Image: Comparison of the state of		:	Exposure time: 72 h Test substance: Water Accommodated Fraction
Toxicity to fish:LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00079 mg/l Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): 0,0001 mg/l Exposure time: 48 hToxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,1 mg/l	aquatic invertebrates (Chron-	:	
Exposure time: 96 hToxicity to daphnia and other aquatic invertebratesEC50 (Daphnia magna (Water flea)): 0,0001 mg/l Exposure time: 48 hToxicity to algae/aquatic plantsErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,1 mg/l	Permethrin (ISO):		
aquatic invertebratesExposure time: 48 hToxicity to algae/aquatic:plantsErC50 (Pseudokirchneriella subcapitata (green algae)): > 1,1	Toxicity to fish	:	
plants mg/l		:	
		:	mg/l



rsion	Revision Date: 06.04.2024		9S Number: 7266-00019	Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0,0023 2 h
M-Fao icity)	ctor (Acute aquatic tox-	:	10.000	
Toxic	ity to microorganisms	:	EC50 : > 1.000 m Exposure time: 3	•
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: 0,00041 n Exposure time: 35 Species: Danio re Method: OECD Te	5 d rio (zebra fish)
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: 0,0047 µg Exposure time: 21 Species: Daphnia Method: OECD Te	l d magna (Water flea)
M-Fac toxicit	ctor (Chronic aquatic	:	10.000	
	outoxyethoxy)ethyl 6-pi ity to fish	rop: :		n variegatus (sheepshead minnow)): 3,94 Sh
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
M-Fao icity)	ctor (Acute aquatic tox-	:	1	
Toxic	ity to microorganisms	:	EC50 : > 1.000 m Exposure time: 3 Method: OECD Te	ĥ
Toxici icity)	ity to fish (Chronic tox-	:	NOEC: 0,18 mg/l Exposure time: 35 Species: Pimepha	5 d ales promelas (fathead minnow)



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Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) M-Factor (Chronic aquatic			Exposure time: 27	1 d i magna (Water flea)
toxicity				
12.2 Persis	stence and degradabil	lity		
<u>Comp</u>	onents:			
	ates (petroleum), solv	ent		
Biode	gradability	:	Result: Not readil Biodegradation: 4 Exposure time: 28 Method: OECD T	4 %
Perme	ethrin (ISO):			
Biode	gradability	:		y biodegradable. est Guideline 301F
2-(2-b	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Biode	gradability	:	Biodegradation: ( Exposure time: 28	0 %
12.3 Bioac	cumulative potential			
Comp	onents:			
Perme	ethrin (ISO):			
	cumulation	:	Species: Lepomis Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 570
	on coefficient: n- bl/water	:	log Pow: 4,67	
2-(2-b	utoxyethoxy)ethyl 6-p	rop	ylpiperonyl ether:	
Partitio	on coefficient: n- bl/water	:	log Pow: 5	
<b>12.4 Mobil</b> No da	<b>ity in soil</b> ta available			
12.5 Resul	ts of PBT and vPvB as	sse	ssment	
Produ	ict:			
Asses	sment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ad very bioaccumulative (vPvB) at levels of



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12.6 Other	12.6 Other adverse effects							
Product: Endocrine disrupting poten- tial		:	The substance/mixture does not contain components consid ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 a levels of 0.1% or higher.					
SECTION	l 13: Disposal consi	dera	ations					
13.1 Waste	e treatment methods							
Product Contaminated packaging		:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.					
SECTION	14: Transport infor	mat	tion					
14.1 UN ni	umber							
ADN	umber		UN 3082					
ADR			UN 3082					
RID			UN 3082					
IMDG		:	UN 3082					
ΙΑΤΑ		:	UN 3082					
14.2 UN pi	roper shipping name							
ADN		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, , 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl				
ADR		:	ENVIRONMENTA N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,				
			(Permethrin (ISO) ether)	, 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl				
RID		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,				
IMDG		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,				



IATA :: Rivironmentally hazardous substance, liquid, n.o.s. (Permethrin (ISO), 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ethyl   14.3 Transport hazard class(es) : Subsidiary risks   ADN : Subsidiary risks   ADR : 9   RID : 9   IMDG : 9   IATA : 9   ADN : 9   ATA : 9   14.4 Packing group : III   Classification Code : M6   Hazard Identification Number : 90   Labels : 9   Packing group : III   Classification Code : M6   Hazard Identification Number : 9   Tunnel restriction code : M6   Hazard Identification Number : 9   Tunnel restriction code : 1   Classification Code : 9   Labels : 9   EmS Code : 9   EmS Code : 9 </th <th>Version 5.0</th> <th>Revision Date: 06.04.2024</th> <th></th> <th>OS Number: 7266-00019</th> <th>Date of last issue: 30.09.2023 Date of first issue: 16.05.2016</th>	Version 5.0	Revision Date: 06.04.2024		OS Number: 7266-00019	Date of last issue: 30.09.2023 Date of first issue: 16.05.2016
ADNClassSubsidiary risksADR:9ADR:9RID:9IMDG:9IATA:91ATA:9Packing group:IIClassification Code:M6Hazard Identification Number:90Labels:9Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Hazard Identification Number:Packing group:IIIClassification Code:M6Hazard Identification Number:Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Tunnel restriction code:M1Classification Code:M6Hazard Identification Number:9Endsing group:IIILabels:9EmS Code:M64acraft:Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964	IAT	Ą	:	(Permethrin (ISO	
ADN:9ADR:9ADR:9RID:9IMDG:9IATA:914.4 Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Tunnel restriction code:M6Hazard Identification Number:90Labels:9Tunnel restriction code:M6Hazard Identification Number:90Labels:9Packing group:IIILabels:9ILabels:9EmS Code:9Packing instruction (cargo:Packing instruction (cargo:Packing instruction (LQ):Y964Packing instruction (passen-:Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ) <td>14.3 Trai</td> <td>nsport hazard class(es)</td> <td></td> <td></td> <td></td>	14.3 Trai	nsport hazard class(es)			
ADR::RID::RID::IMDG::IATA::Packing group:!Classification Code:M6Hazard Identification Number::Packing group:!Labels::Packing group:!IIClassification Code:Hazard Identification Number::Packing group:!Classification Code:MC::Hazard Identification Number::::Packing group:!Classification Code:: <t< td=""><td></td><td></td><td></td><td>Class</td><td>Subsidiary risks</td></t<>				Class	Subsidiary risks
RID:9IMDG:9IMDG:9IATA:9tata:9tata:9tata:9tata:9tata:IIIClassification Code:M6Hazard Identification Number:90Labels:IIIClassification Code:M6Hazard Identification Number:90Labels:90Labels:90Tunnel restriction code:RID:IIIClassification Code:RiD:Packing group:ILabels::90Labels::90Labels::90Labels::90Labels::90Labels::90Labels::90Labels::90:100:100:100:100:100:964:964:964:964:964:964:964:964:964:964:964:964:96	ADN	1	:	9	
IMDG::IATA:9IATA:914.4 Packing group:914.7 Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Classification Code:10Classification Code:90Labels:91Packing instruction (cargo:Packing instruction (cargo:Packing instruction (cargo:Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):	ADF	2	:	9	
IATA:9IATAADN	RID		:	9	
<b>14.4 Packing group</b> III   Packing group III   Classification Code 90   Hazard Identification Number 90 <b>ADR</b> III   Packing group III   Classification Code 90 <b>ADR</b> III   Packing group III   Classification Code 90   Labels 9   Packing group III   Labels 9   EmS Code 9   Packing instruction (cargo 964   aircraft) 964   Packing instruction (LQ) 104   Labels 964   eracring instruction (LQ)	IMD	G	:	9	
ADNPacking group:IIIClassification Code:M6Hazard Identification Number:90Labels::Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels::Packing group:IIIClassification Code:(-)RID::Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels::Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels::Packing group:IIILabels::Packing group:IIILabels::Packing instruction (cargo):Packing instruction (LQ):Y964:Packing instruction (LQ):Packing instruction (LQ):Packing instruction (LQ):Packing group:Packing group:Packing instruction (LQ):Y964Packing instruction (LQ):Packing group:Packing instruction (LQ):Packing group:Packing group:HLabels:Miscellaneous	ΙΑΤ	4	:	9	
Packing group:IIIClassification Code:M6Hazard Identification Number:9ADR:Packing group:IIIClassification Code:M6Hazard Identification Number:9Tunnel restriction code:9Tunnel restriction code:(-)RID:IIIClassification Code:(-)RID:90Labels:90Labels:90Labels:90Labels:9IMDG:9Packing group:IIILabels:9IMDG:9Packing instruction (cargo:9EmS Code:F-A, S-FIATA (Cargo):10Packing instruction (LQ):964aircraft):MiscellaneousPacking instruction (LQ):964Packing instruction (	14.4 Pac	king group			
Packing group:IIIClassification Code:M6Hazard Identification Number:90Labels:9Tunnel restriction code:(-)RID:IIIPacking group:IIIClassification Code:90Labels:90Labels:90Labels:90Labels:90Labels:9IMDG:9Packing group:IIILabels:9EmS Code:F-A, S-FIATA (Cargo):Y964Packing instruction (cargo:MiscellaneousPacking group:IIILabels:9Packing instruction (passen- ger aircraft):Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing group:IIILabels:Y964Packing group:IIILabels:Y964Packing group:IIILabels:Wiscellaneous	Pacl Clas Haza	king group sification Code ard Identification Number	:	M6 90	
RIDPacking group:IIIClassification Code:M6Hazard Identification Number:90Labels:9IMDG:Packing group:IIILabels:9EmS Code:9EmS Code:F-A, S-FIATA (Cargo):Packing instruction (cargo):964aircraft):IIIPacking group:IIILabels:MiscellaneousIATA (Passenger):964Packing instruction (passen- ger aircraft):Packing instruction (LQ):Y964Packing instruction (LQ):11Labels:Y964Packing instruction (LQ):Packing group:IIILabels:Y964Packing group:IIILabels:IIILabels:Y964Packing group:IIILabels:Y164Packing group:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:IIILabels:III <td>Pacl Clas Haza Labe</br></td> <td>king group sification Code ard Identification Number els</td> <td>:</td> <td>M6 90 9</td> <td></td>	Pacl Clas Haza 	king group sification Code ard Identification Number els	:	M6 90 9	
Packing group:IIILabels:9EmS Code:F-A, S-FIATA (Cargo):964Packing instruction (cargo:964aircraft):Y964Packing group:IIILabels:MiscellaneousIATA (Passenger):964Packing instruction (LQ):Y964Packing instruction (passen- ger aircraft):964Packing instruction (LQ):Y964Packing instruction (LQ):Y964Packing group:IIILabels:Miscellaneous	Pacl Clas Haza	sification Code ard Identification Number	:	M6 90	
Packing instruction (cargo:964aircraft)Packing instruction (LQ):Y964Packing group:IIILabels:MiscellaneousIATA (Passenger)Packing instruction (passen-:964ger aircraft)Packing instruction (LQ):Y964Packing group:IIILabels:Miscellaneous	Pacl Labe	king group els	:	9	
Packing instruction (LQ):Y964Packing group:IIILabels:MiscellaneousIATA (Passenger)Packing instruction (passen- ger aircraft):Packing instruction (LQ):Y964Packing group:IIILabels:Miscellaneous	Pacl	king instruction (cargo	:	964	
Packing instruction (passen-964ger aircraft)Packing instruction (LQ)Y964Packing groupIIILabelsMiscellaneous	Pacl Pacl	king instruction (LQ) king group	:	III	
Packing instruction (LQ):Y964Packing group:IIILabels:Miscellaneous	Pacl	king instruction (passen-	:	964	
	Pacl Pacl	king instruction (LQ) king group	:	III	
			•		

## ADN

Environmentally hazardous : yes



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	ADR	nmentally hazardous		Vec	
	RID	nmentally hazardous	:	yes	
	IMDG Marine pollutant		:	yes	
	IATA (Passenger) Environmentally hazardous		:	yes	
	IATA ( Enviror	Cargo) nmentally hazardous	:	yes	
14.6	Specia	al precautions for use	er		

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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

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

#### Full text of H-Statements

H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H332 :	Harmful if inhaled.
H335 :	May cause respiratory irritation.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.



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Full t	ext of other abbrevi	ations			
Acute Tox.		:	Acute toxicity		
Aquatic Acute		:	Short-term (acute) aquatic hazard		
Aquatic Chronic :		:	Long-term (chronic) aquatic hazard		
• · <del>·</del>					

Asp. Tox.:Aspiration hazardEye Irrit.:Eye irritationSkin Sens.:Skin sensitisationSTOT SE:Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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 carrving 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

### Further information

Skin Sens. 1	H317	Calculation method	
Asp. Tox. 1	H304	Based on product data or assessment	
Aquatic Acute 1	H400	Calculation method	
Aquatic Chronic 1	H410	Calculation method	



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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.

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