

### Methyl Salicylate / Diclofenac Formulation

rsion	Revision Date: 30.09.2023		S Number: 6970-00018	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016	
ction 1:	Identification				
	ict name		Methyl Salicyla	te / Diclofenac Formulation	
FIUUU	ict name	•	Wethyr Galleyla		
Manu Comp	facturer or supplier's d	leta	il <b>s</b> MSD		
		•			
Addre	SS	:	33 Whakatiki S Upper Hutt - Ne	treet - Private Bag 908 ew Zealand	
Telep	hone	:	0800 800 543		
Emer	gency telephone number	· :	0800 764 766 (0800 POISON) 0800 243 622 (0800 CHEMCALL)		
E-mai	il address	:	EHSDATASTE	WARD@msd.com	
Reco	mmended use of the ch	nem	ical and restric	tions on use	
Restri	mmended use ictions on use	:	Veterinary proc Not applicable	luct	
Restri ction 2: GHS Seriou		:	Not applicable	luct	
Restri ction 2: GHS Seriou tation	Hazard identification Classification us eye damage/eye irri-	:	Not applicable	luct	
Restri ction 2: GHS Seriou tation Skin s	A Hazard identification Classification us eye damage/eye irri- sensitisation	:	Not applicable Category 1 Category 1	luct	
Restri ction 2: GHS Seriou tation Skin s	Hazard identification Classification us eye damage/eye irri-	::	Not applicable	luct	
Restri ction 2: GHS Seriou tation Skin s Repro	A Hazard identification Classification us eye damage/eye irri- sensitisation	:: : : :	Not applicable Category 1 Category 1 Category 2	strointestinal tract, Blood, lymphatic syst	
Restri ction 2: GHS Seriou tation Skin s Repro Speci repea Hazar	<b>Hazard identification</b> <b>Classification</b> us eye damage/eye irri- sensitisation oductive toxicity fic target organ toxicity -	::	Not applicable Category 1 Category 1 Category 2 Category 2 (Ga	strointestinal tract, Blood, lymphatic syst	
Restri ction 2: GHS Seriou tation Skin s Repro Speci repea Hazar enviro	<b>Hazard identification</b> <b>Classification</b> us eye damage/eye irri- sensitisation oductive toxicity fic target organ toxicity - ted exposure rdous to the aquatic	: : : : : : : : : : : : : : : : : : : :	Not applicable Category 1 Category 1 Category 2 Category 2 (Ga Liver, Prostate)	strointestinal tract, Blood, lymphatic syst	
Restri ction 2: GHS Seriou tation Skin s Repro Speci repea Hazar enviro GHS	E Hazard identification Classification Us eye damage/eye irri- sensitisation oductive toxicity fic target organ toxicity - ted exposure rdous to the aquatic onment - chronic hazard	· · · · · · · · · · · · · · · · · · ·	Not applicable Category 1 Category 1 Category 2 Category 2 (Ga Liver, Prostate)	strointestinal tract, Blood, lymphatic syst	
Restri ction 2: GHS ( Seriou tation Skin s Repro Speci repea Hazar enviro GHS ( Hazar	<b>Hazard identification</b> <b>Classification</b> us eye damage/eye irri- sensitisation oductive toxicity fic target organ toxicity - ted exposure rdous to the aquatic onment - chronic hazard <b>label elements</b>	· · · · · · · · · · · · · · · · · · ·	Not applicable Category 1 Category 1 Category 2 Category 2 (Ga Liver, Prostate)	strointestinal tract, Blood, lymphatic syst	



ersion 1	Revision Date: 30.09.2023	SDS Number: 656970-00018	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
		H373 May cau Blood, lympha repeated expo	cted of damaging the unborn child. use damage to organs (Gastrointestinal tract, tic system, Liver, Prostate) through prolonged or osure. aquatic life with long lasting effects.
Preca	utionary statements	Prevention:	
		P202 Do not h and understoc P261 Avoid br P272 Contam the workplace P273 Avoid re	eathing dust/ fume/ gas/ mist/ vapours/ spray. inated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response:	
		P302 + P352 P305 + P351 water for seve and easy to do CENTER/ doo P308 + P313 attention.	IF exposed or concerned: Get medical advice/ If skin irritation or rash occurs: Get medical ad-
		Storage:	
		P405 Store lo	cked up.
		<b>Disposal:</b> P501 Dispose disposal plant	of contents/ container to an approved waste

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Petrolatum	8009-03-8	>= 70 -< 90
Zinc oxide	1314-13-2	>= 10 -< 20
Methyl salicylate	119-36-8	>= 3 -< 10
Sodium [2-[(2,6-	15307-79-6	>= 1 -< 2.5
dichlorophenyl)amino]phenyl]acetate		
(+)-Bornan-2-one	464-49-3	>= 1 -< 2.5



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Section 4: First-aid measures		
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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with 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	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.
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).
Notes to physician	:	Treat symptomatically and supportively.

### Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sodium oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.



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for fir	ial protective equipment efighters hem Code	:		re, wear self-contained breathing apparatus. otective equipment.	
Section 6	: Accidental release me	eas	ures		
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	otective equipment. Iling advice (see section 7) and personal pro- nt recommendations (see section 8).	
Envir	Environmental precautions		Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
	Methods and materials for containment and cleaning up		Sweep up or vacuum up spillage and collect in suitable of tainer for disposal. Local or national regulations may apply to releases and of posal of this material, as well as those materials and item employed in the cleanup of releases. You will need to de mine which regulations are applicable. Sections 13 and 15 of this SDS provide information rega certain local or national requirements.		
Section 7	: Handling and storage				
Local	Technical measures Local/Total ventilation Advice on safe handling		CONTROLS/PE Use only with ad Do not get on sk Do not breathe o Do not swallow. Do not get in eye Wash skin thoro	lust, fume, gas, mist, vapours or spray.	

handle in accordance with good industrial hygiene and safety
practice, based on the results of the workplace exposure as-
sessment
Keep container tightly closed.
Do not eat, drink or smoke when using this product.
, <b>5</b> 1

Take care to prevent spills,	waste and minimize release to the
environment.	

Hygiene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> </ul>
	When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.
Conditions for safe storage	<ul><li>Wash contaminated clothing before re-use.</li><li>Keep in properly labelled containers.</li><li>Store locked up.</li></ul>



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Materi	als to avoid		nce with the particular national regulations. the following product types:

### Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type	Control parame-	Basis
Componente	0/10/110.	(Form of	ters / Permissible	Duolo
		exposure)	concentration	
Petrolatum	8009-03-8	WES-TWA	5 mg/m3	NZ OEL
		(Mist)	e	
		WES-STEL	10 mg/m3	NZ OEL
		(Mist)		
		TWA (Inhal-	5 mg/m3	ACGIH
		able particu-	-	
		late matter)		
Zinc oxide	1314-13-2	WES-TWA	2 mg/m3	NZ OEL
		WES-TWA	0.1 mg/m3	NZ OEL
		(Respirable	°,	
		dust)		
		WES-STEL	5 mg/m3	NZ OEL
		WES-STEL	0.5 mg/m3	NZ OEL
		(Respirable	_	
		dust)		
		TWA (Res-	2 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
		STEL (Res-	10 mg/m3	ACGIH
		pirable par-		
		ticulate mat-		
		ter)		
Sodium [2-[(2,6-	15307-79-6	TWA	100 µg/m3 (OEB	Internal
dichloro-			2)	
phenyl)amino]phenyl]acetate				
	Further inform			
(+)-Bornan-2-one	464-49-3	WES-TWA	2 ppm 12 mg/m3	NZ OEL
	Further inform	ation: Skin sens	itiser	
		WES-STEL	3 ppm	NZ OEL
			19 mg/m3	
	Further inform	ation: Skin sens	itiser	
		TWA	2 ppm	ACGIH
		STEL	3 ppm	ACGIH

#### Components with workplace control parameters

Engineering measures

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

:



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Pers	onal protective equip	oment					
Fi	iratory protection Iter type I protection	<ul> <li>If adequate local exhaust ventilation is not available or esure assessment demonstrates exposures outside the normended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapour type</li> </ul>					
М	aterial	: Chemical	: Chemical-resistant gloves				
R	emarks	on the co stance an determine applicatio chemicals glove ma	Choose gloves to protect hands against chemicals dependin on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is no 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.				
Eye p	Eye protection		following personal protective equipment: resistant goggles must be worn. s are likely to occur, wear:				
Skin	and body protection	resistance potential. Skin cont	oropriate protective clothing based on chemical e data and an assessment of the local exposure act must be avoided by using impervious protective gloves, aprons, boots, etc).				

### Section 9: Physical and chemical properties

Appearance	:	ointment
Colour	:	light red
Odour	:	aromatic
Odour 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 classified as a flammability hazard
Flammability (liquids)	:	No data available



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	er explosion limit / Upper mability limit	:	No data available	
	Lower explosion limit / Lower flammability limit		No data available	
Vapo	our pressure	:	No data available	2
Rela	tive vapour density	:	No data available	2
Rela	tive density	:	No data available	2
Dens	sity	:	No data available	2
	bility(ies) /ater solubility	:	No data available	
	tion coefficient: n- nol/water	:	No data available	)
	-ignition temperature	:	No data available	)
Deco	omposition temperature	:	No data available	)
Visco V	osity ïscosity, kinematic	:	No data available	9
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9
Parti	cle size	:	No data available	)

### 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

Exposure routes	: Skin contact
-	Ingestion
	Eye contact



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	<b>e toxicity</b> lassified based on availa	ble	information.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	e: dust/mist
Com	ponents:			
Petro	olatum:			
Acute	e oral toxicity	•		,000 mg/kg Test Guideline 401 d on data from similar materials
Acute	e dermal toxicity	:	Assessment: Th toxicity	,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal d on data from similar materials
Zinc	oxide:			
Acute	e oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher Assessment: Th tion toxicity	4 h
Acute	e dermal toxicity	:	Method: OECD	,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal
Meth	yl salicylate:			
Acute	e oral toxicity	:	LD50 (Rat): 890	) mg/kg
Sodiu	um [2-[(2,6-dichlorophe	nyl	)amino]phenyl]a	acetate:
Acute	e oral toxicity	:	LD50 (Rat): 55	- 240 mg/kg
			LD50 (Mouse):	170 - 389 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 97 Application Rou	



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		LD50 (Mouse): 92 - 147 mg/kg	
		Application Route: Intravenous	
(+)-Bc	ornan-2-one:		
	oral toxicity	: LD50 (Mouse): > 300 - 2,000 mg/kg Remarks: Based on data from similar mater	ials
		Acute toxicity estimate (Humans): > 50 - 50 Method: Expert judgement Remarks: Based on data from similar mater	
Acute	inhalation toxicity	: LC50 (Rat): > 0.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
		Remarks: Based on data from similar mater	ials
Acute	dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar mater	ials
	corrosion/irritation		
	assified based on ava	ble information.	
	oonents:		
	latum:	Dathi	
Specie Metho		: Rabbit : OECD Test Guideline 404	
Result		: No skin irritation	
Rema	rks	: Based on data from similar materials	
Zinc c	oxide:		
Specie		: Rabbit	
Metho Result		: OECD Test Guideline 404 : No skin irritation	
Result	L		
-	/I salicylate:		
Specie	es	: Rabbit	
Metho Result		: OECD Test Guideline 404 : No skin irritation	
Result	d		
	d		
	od t I <b>m [2-[(2,6-dichlorop</b>	enyl)amino]phenyl]acetate:	
Result	od t I <b>m [2-[(2,6-dichlorop</b>		
	od t I <b>m [2-[(2,6-dichlorop</b>	enyl)amino]phenyl]acetate:	
<b>(+)-Bc</b> Specie	od t I <b>m [2-[(2,6-dichlorop</b> t t <b>ornan-2-one:</b> es	e <b>nyl)amino]phenyl]acetate:</b> : irritating : Rabbit	
(+)-Bo	od t m [2-[(2,6-dichlorop t t <b>ornan-2-one:</b> es t	enyl)amino]phenyl]acetate: : irritating	



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Speci Metho Resul	bd	: Guinea pig : OECD Test : negative	Guideline 406
Methy	yl salicylate:		
Test Expos Speci Resul	sure routes es	: Local lympl : Skin contac : Mouse : positive	n node assay (LLNA) t
Asses	ssment	: Probability rate in hum	or evidence of low to moderate skin sensitisation ans
(+)-Bo	ornan-2-one:		
Test 7	Гуре sure routes es od t	: negative	
Chro	nic toxicity		
Germ	cell mutagenicity		
Not cl	assified based on av	ailable information.	
Not cl <u>Com</u> r	assified based on av	ailable information.	
Not cl <u>Comp</u> Petro	assified based on av	: Test Type: Result: neg	Chromosome aberration test in vitro ative Based on data from similar materials
Not cl <u>Comr</u> Petro Geno	assified based on av ponents: latum:	<ul> <li>Test Type: Result: neg Remarks: E</li> <li>Test Type: cytogenetic Species: M Application Method: OE Result: neg</li> </ul>	ative Based on data from similar materials Mammalian erythrocyte micronucleus test (in vive assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474
Not cl <u>Com</u> Petro Geno	assified based on av ponents: latum: toxicity in vitro	<ul> <li>Test Type: Result: neg Remarks: E</li> <li>Test Type: cytogenetic Species: M Application Method: OE Result: neg</li> </ul>	ative Based on data from similar materials Mammalian erythrocyte micronucleus test (in vive assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474 ative
Not cl <u>Comp</u> Petro Geno Geno Zinc o	assified based on av <u>ponents:</u> latum: toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Result: neg Remarks: E</li> <li>Test Type: cytogenetic Species: M Application Method: OE Result: neg Remarks: E</li> </ul>	ative based on data from similar materials Mammalian erythrocyte micronucleus test (in vive assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474 ative based on data from similar materials Bacterial reverse mutation assay (AMES)
Not cl <u>Comp</u> Petro Geno Geno Zinc o	assified based on av <u>ponents:</u> latum: toxicity in vitro toxicity in vivo	<ul> <li>Test Type: Result: neg Remarks: E</li> <li>Test Type: cytogenetic Species: M Application Method: OE Result: neg Remarks: E</li> <li>Test Type: Result: neg Test Type:</li> </ul>	ative Based on data from similar materials Mammalian erythrocyte micronucleus test (in vive assay) ouse Route: Intraperitoneal injection ECD Test Guideline 474 ative Based on data from similar materials Bacterial reverse mutation assay (AMES) ative In vitro mammalian cell gene mutation test ECD Test Guideline 476



Versio 9.1	30.09.2023	-	DS Number: 6970-00018	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
			Desultantianel	
			Result: equivocal	
G	Genotoxicity in vivo		cytogenetic assay Species: Rat Application Route	nalian erythrocyte micronucleus test (in vivo /) e: inhalation (dust/mist/fume) est Guideline 474
			cytogenetic test, of Species: Rat	enicity (in vivo mammalian bone-marrow chromosomal analysis) e: inhalation (dust/mist/fume)
			cytogenetic assay Species: Mouse Application Route	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection test Guideline 474
	erm cell mutagenicity - ssessment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
М	ethyl salicylate:			
G	enotoxicity in vitro	:	Test Type: Chron Result: negative	nosome aberration test in vitro
			Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
S	odium [2-[(2,6-dichlorop	henyl	)amino]phenyl]ac	etate:
G	enotoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Mouse Result: negative	e Lymphoma
G	enotoxicity in vivo	:	Test Type: Chron Species: CHO Result: negative	nosomal aberration
(+	)-Bornan-2-one:			
G	enotoxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
				o mammalian cell gene mutation test est Guideline 476



rsion I	Revision Date: 30.09.2023	SDS Number: 656970-00018	Date of last issue: 04.04.2023 Date of first issue: 02.05.2016
		Result: negativ	
			ed on data from similar materials
		Test Type: Chr Result: negativ	romosome aberration test in vitro re
Genotoxicity in vivo		cytogenetic tes Species: Mous Application Ro Result: negativ	ute: Ingestion
		cytogenetic as Species: Mous	
		Result: negativ	
<u> </u>			
	nogenicity assified based on av	ailable information	
Not cl	<b>nogenicity</b> assified based on av <b>conents:</b>	ailable information.	
Not cl <u>Com</u>	assified based on av	ailable information.	
Not cl <u>Comp</u> Petro	assified based on av ponents: latum:	ailable information. : Rat	
Not cl <u>Comp</u> Petro Speci	assified based on av ponents: latum:		
Not cl Comp Petro Speci Applio	assified based on av ponents: latum: es	: Rat	
Not cl Comp Petro Speci Applio	assified based on av <u>conents:</u> latum: es cation Route sure time	: Rat : Ingestion	
Not cl <u>Comp</u> Petro Speci Applic Expos Resul	assified based on av <u>conents:</u> latum: es cation Route sure time	: Rat : Ingestion : 2 Years	
Not cl <u>Comp</u> Petro Speci Applic Expos Resul Zinc o Speci	assified based on av <u>conents:</u> latum: es cation Route sure time t t oxide: es	: Rat : Ingestion : 2 Years : negative : Mouse	
Not cl Comp Petro Speci Applic Expos Resul Zinc o Speci Applic	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route	: Rat : Ingestion : 2 Years : negative : Mouse : Ingestion	
Not cl Comp Petro Speci Applic Expos Resul Zinc o Speci Applic Expos	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time	: Rat : Ingestion : 2 Years : negative : Mouse : Ingestion : 1 Years	
Not cl Comp Petro Speci Applic Expos Resul Zinc o Speci Applic	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t	: Rat : Ingestion : 2 Years : negative : Mouse : Ingestion : 1 Years : negative	from similar materials
Not cl <u>Comp</u> Petro Speci Applic Expos Resul Zinc o Speci Applic Expos Resul Resul Resul	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t t arks	: Rat : Ingestion : 2 Years : negative : Mouse : Ingestion : 1 Years : negative	from similar materials
Not cl Comp Petro Speci Applic Expos Resul Resul Resul Reman Methy	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t urks yl salicylate:	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul> Mouse <ul> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> </ul>	from similar materials
Not cl Comp Petro Speci Applic Expos Resul Resul Resul Rema Methy Speci	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t t urks yl salicylate: es	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul> Mouse <ul> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> </ul> Rat	from similar materials
Not cl Comp Petro Speci Applic Expos Resul Resul Resul Rema Methy Speci Applic	assified based on av <u>conents:</u> latum: es cation Route sure time t bxide: es cation Route sure time t urks yl salicylate: es cation Route	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul> Mouse <ul> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> </ul> Rat <ul> <li>Ingestion</li> </ul>	from similar materials
Not cl Comp Petro Speci Applic Expos Resul Resul Resul Rema Methy Speci Applic	assified based on av <u>conents:</u> latum: es cation Route sure time t bxide: es cation Route sure time t yl salicylate: es cation Route sure time t	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul> Mouse <ul> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> </ul> Rat	from similar materials
Not cl Comp Petro Speci Applic Expos Resul Resul Rema Methy Speci Applic Expos Resul Rema	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t yl salicylate: es cation Route sure time t t sure time t t	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> <li>Mouse</li> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> </ul>	
Not cl Comp Petro Speci Applic Expos Resul Resul Rema Methy Speci Applic Expos Resul Rema	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t urks yl salicylate: es cation Route sure time t um [2-[(2,6-dichloro]	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul> Mouse <ul> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> </ul> Rat <ul> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul>	
Not cl Comp Petro Speci Applic Expos Resul Zinc o Speci Applic Expos Resul Rema Methy Speci Applic Expos Resul Rema Speci Applic Expos Resul Rema	assified based on av <u>ponents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t wrks yl salicylate: es cation Route sure time t m [2-[(2,6-dichloroges cation Route	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul>	
Not cl Comp Petro Speci Applic Expos Resul Zinc o Speci Applic Expos Resul Rema Methy Speci Applic Expos Resul Rema Speci Applic Expos Resul Rema	assified based on av <u>conents:</u> latum: es cation Route sure time t oxide: es cation Route sure time t urks yl salicylate: es cation Route sure time t um [2-[(2,6-dichlorop es cation Route sure time t	<ul> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> <li>Mouse</li> <li>Ingestion</li> <li>1 Years</li> <li>negative</li> <li>Based on data</li> <li>Rat</li> <li>Ingestion</li> <li>2 Years</li> <li>negative</li> </ul>	



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		ation Route ure time	:	Mouse Oral 2 Years negative	
	Suspe	ductive toxicity cted of damaging the u	ınbo	rn child.	
	Comp	onents:			
	Petrol Effects	atum: s on fertility	:	test Species: Rat Application Roo Result: negativ	
	Effects ment	s on foetal develop-	:	Species: Rat Application Ron Result: negativ	oryo-foetal development ute: Skin contact e id on data from similar materials
	Zinc o	xide:			
	Effects	s on fertility	:	Species: Rat Application Rot Result: negativ	
	Effects ment	s on foetal develop-	:	Species: Rat Application Roy Method: OECD Result: negativ	oryo-foetal development ute: inhalation (dust/mist/fume) Test Guideline 414 e d on data from similar materials
	Methy	l salicylate:			
		s on fertility	:	Test Type: Thr Species: Rat Application Ro Result: negativ	
	Effects ment	s on foetal develop-	:	Species: Rat Application Rot Result: positive	
				Test Type: Em	oryo-foetal development



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		Result: po	n Route: Ingestion
Repro sessn	oductive toxicity - As- nent	: Some evic animal exp	dence of adverse effects on development, based operiments.
Sodiu	ım [2-[(2,6-dichloroph	enyl)amino]ph	enyl]acetate:
Effect	s on fertility	Application Fertility: N	: Fertility Rat, male and female n Route: Oral OAEL: 4 mg/kg body weight o effects on fertility
Effect ment	s on foetal develop-	Species: F Application Developm	: Development Rat n Route: Oral ental Toxicity: LOAEL: 1 mg/kg body weight nbryo-foetal toxicity, No teratogenic effects
		Species: F Application Developm	: Development Rabbit n Route: Oral ental Toxicity: LOAEL: 5 mg/kg body weight nbryo-foetal toxicity, No teratogenic effects
Repro sessn	oductive toxicity - As- nent	: Suspected	d of damaging the unborn child.
• •	ornan-2-one:		
Effect ment	s on foetal develop-	Species: F	n Route: Ingestion
	- single exposure	lable information	
	assified based on avai <b>conents:</b>	iable information	

(+)-Bornan-2-one:		
Assessment	:	May cause respiratory irritation.
Remarks	:	Based on data from similar materials

#### STOT - repeated exposure

May cause damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure.



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Comp	oonents:		
Zinc	oxide:		
	ssment	: No significant	nealth effects observed in animals at concent
A3563	soment	tions of 0.2 mg	
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]phenyl	acetate:
Targe	et Organs	: Gastrointestina	al tract, Blood, lymphatic system, Liver, Prosta
Asses	ssment	: Causes damage exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Petro	latum:		
Speci	es	: Rat	
NOAE		: 5,000 mg/kg	
	cation Route	: Ingestion	
Expos	sure time	: 2 yr	
Zinc	oxide:		
Speci		: Rat, male	
NOAE	L Cation Route	: 0.0015 mg/l : inhalation (dus	t/mist/fume)
	sure time	: 3 Months	
Metho		: OECD Test Gu	uideline 413
Methy	yl salicylate:		
Speci		: Rat	
NOAE		: 50 mg/kg	
LOAE	:L cation Route	: 250 mg/kg : Ingestion	
	sure time	: 2 yr	
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]phenyl	acetate:
Speci		: Rat	
LÖAE	EL	: 0.25 mg/kg	
	cation Route	: Oral	
	sure time	: 98 w	al tract Blood lymphotic system Liver Breet
rarge	et Organs	. Gasuointestina	al tract, Blood, lymphatic system, Liver, Prosta
Speci	es	: Dog	
LÖAE	EL	: 1 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 12 w : Blood	
-	-		
Speci	es	: Baboon	



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Expos Targe Symp (+)-Bo Speci	EL cation Route sure time et Organs toms <b>ornan-2-one:</b> es	· · · · · · · · · · · · · · · · · · ·	0.5 mg/kg 5 mg/kg Oral 52 w Gastrointestinal to constipation, Diar	
	cation Route sure time	:	> 200 mg/kg Skin contact 13 Weeks Based on data fro	om similar materials
Not cl	ation toxicity assified based on availa rience with human exp			
<u>Comp</u>	oonents:			
	ım [2-[(2,6-dichlorophe	enyl		
Inges	tion	:		minal pain, Diarrhoea, constipation, heart- Dizziness, Headache, Breathing difficulties,
ection 12	2: Ecological informati	on		
Ecoto	oxicity			
Comp	oonents:			
	<b>latum:</b> ity to fish	:	Exposure time: 9 Test substance: \ Method: OECD T	s promelas (fathead minnow)): > 100 mg/l 6 h Water Accommodated Fraction est Guideline 203 on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 44 Test substance: \	nagna (Water flea)): > 10,000 mg/l 8 h Vater Accommodated Fraction on data from similar materials
Toxici plants	ity to algae/aquatic	:	100 mg/l Exposure time: 77 Test substance: \ Method: OECD T	rchneriella subcapitata (green algae)): >= 2 h Vater Accommodated Fraction est Guideline 201 on data from similar materials



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a	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	Exposure time: 21 Test substance: V	nagna (Water flea)): 10 mg/l d Vater Accommodated Fraction on data from similar materials
Z	inc oxide	<b>;</b>			
T	Toxicity to fish		:	LC50 : > 0.1 - 1 m Exposure time: 96 Remarks: Based o	
	oxicity to lants	algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.136 ? h
				- 0.1 mg/l Exposure time: 72	rchneriella subcapitata (green algae)): > 0.01 ? h on data from similar materials
	•	Acute aquatic tox-	:	1	
Т	city) oxicity to city)	fish (Chronic tox-	:	Exposure time: 14	a floridae (flagfish)): > 0.01 - 0.1 mg/l Weeks on data from similar materials
a		daphnia and other rertebrates (Chron-	:	Exposure time: 7	nnia dubia (water flea)): > 0.01 - 0.1 mg/l d on data from similar materials
	1-Factor ( oxicity)	Chronic aquatic	:	1	
Μ	lethyl sal	licylate:			
T	oxicity to	fish	:	mg/l Exposure time: 96	s promelas (fathead minnow)): > 10 - 100 5 h on data from similar materials
		daphnia and other rertebrates	:	Exposure time: 48 Method: OECD Te	
	oxicity to lants	algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
				NOEC (Desmode: Exposure time: 72 Method: OECD Te	
Т	oxicity to	microorganisms	:	EC10 (Pseudomo	nas putida): 140 mg/l



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			Exposure time: 1	6 h
Sodiu	ım [2-[(2,6-dichlorophe	enyl	)amino]phenyl]ao	cetate:
Toxici	ty to fish	:	Exposure time: 9	es promelas (fathead minnow)): 166.6 mg/l 6 h <sup>-</sup> est Guideline 203
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	nagna (Water flea)): 80.1 mg/l 8 h <sup>-</sup> est Guideline 202
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 71.9 2 h <sup>-</sup> est Guideline 201
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 49.3 2 h <sup>-</sup> est Guideline 201
Toxici icity)	ty to fish (Chronic tox-	•	Exposure time: 3	les promelas (fathead minnow)): 0.32 mg/l 2 d <sup>-</sup> est Guideline 210
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		Exposure time: 2	magna (Water flea)): 10 mg/l 1 d <sup>-</sup> est Guideline 211
(+)-Bo	ornan-2-one:			
• •	ty to fish	:	Exposure time: 9 Method: OECD 1	o (zebra fish)): > 10 - 100 mg/l 6 h ēst Guideline 203 on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Method: OECD 1	nagna (Water flea)): > 1 - 10 mg/l 8 h Test Guideline 202 on data from similar materials
Toxici plants	ty to algae/aquatic	:	10 mg/l Exposure time: 7 Method: OECD 1	irchneriella subcapitata (green algae)): > 1 2 h <sup>-</sup> est Guideline 201 on data from similar materials
			- 0.1 mg/l Exposure time: 7 Method: OECD 1	irchneriella subcapitata (green algae)): > 0 2 h <sup>-</sup> est Guideline 201 on data from similar materials



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Toxic	ity to microorganisms	:		
Persi	stence and degradab	oility		
Com	ponents:			
	olatum: egradability	:	Biodegradation: Exposure time: Method: OECD	
Meth	yl salicylate:			
Biode	egradability	:	Result: Readily Biodegradation: Exposure time:	98.4 %
• •	<b>ornan-2-one:</b> egradability	:		biodegradable. Test Guideline 301F d on data from similar materials
Bioa	ccumulative potential	I		
Com	ponents:			
Zinc	oxide:			
Bioac	cumulation	:		hynchus mykiss (rainbow trout) n factor (BCF): 78 - 2,060
Partit	<b>yl salicylate:</b> ion coefficient: n- ol/water	:	log Pow: 2.55	
Partit	um [2-[(2,6-dichlorop ion coefficient: n- ol/water	henyl :	<b>)amino]phenyl]a</b> log Pow: 4.51	acetate:
Partit	ornan-2-one: ion coefficient: n- ol/water	:	log Pow: 2.3	
	<b>lity in soil</b> ata available			



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	<b>adverse effects</b> ta available					
Section 13	3: Disposal considerat	ions	5			
Dispo	osal methods					
-	e from residues	:		e of waste into sewer.		
Conta	minated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste h dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.			
Section 14	4: Transport information	on				
Interr	national Regulations					
UNRT	DG					
UN nı Prope	umber r shipping name	:	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, SOLID, odium [2-[(2,6-		
			dichlorophenyl	)amino]phenyl]acetate)		
Class	ng group	:	9 III			
Label		÷	9			
Enviro	onmentally hazardous	:	yes			
IATA-	DGR					
UN/ID		:	UN 3077			
Prope	r shipping name	:	(Zinc oxide, S	ly hazardous substance, solid, n.o.s. odium [2-[(2,6- )amino]phenyl]acetate)		
Class		:	9	,		
	ng group	:				
Label: Packi	s ng instruction (cargo	:	Miscellaneous 956			
aircra		•				
	ng instruction (passen-	:	956			
Enviro	onmentally hazardous	:	yes			
-	-Code					
UN nı Prope	umber r shipping name	:	N.O.S. (Zinc oxide, Sc	ITALLY HAZARDOUS SUBSTANCE, SOLID, odium [2-[(2,6- )amino]phenyl]acetate)		
Class		:	9	· / · /		
	ng group	:	III			
Label		:	9 F-A, S-F			
EmS						



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

Not applicable for product as supplied.

#### **National Regulations**

<b>NZS 5433</b> UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide, Sodium [2-[(2,6- dichlorophenyl)amino]phenyl]acetate)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

#### Special precautions for user

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

#### Section 15: Regulatory information

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

#### HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

#### **HSW Controls**

Certified handler certificate not required.

Tracking hazardous substance not required.

Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

#### Section 16: Other information

Revision Date	:	30.09.2023
Further information		
Sources of key data used to compile the Safety Data	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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Sheet	t	C	v, http://echa.e	europa.eu/		
Date	format	: de	d.mm.yyyy			
Full t	ext of other abbrevia	tions				
ACGIH NZ OEL		: N	<ul><li>: USA. ACGIH Threshold Limit Values (TLV)</li><li>: New Zealand. Workplace Exposure Standards for Atmospher-</li></ul>			
		ic	Contaminant	8		
	H / TWA H / STEL		hour, time-we	ighted average osure limit		
	EL / WES-TWA EL / WES-STEL			osure Standard - Time Weighted average osure Standard - Short-Term Exposure Limit		
Land Carci Stanc	of Brazil; ASTM - Am nogen, Mutagen or F lardisation; DSL - Don	erican S Reproduc nestic Su	ociety for the tive Toxicant bstances List	als; ANTT - National Agency for Transport by Testing of Materials; bw - Body weight; CMR - ; DIN - Standard of the German Institute for (Canada); ECx - Concentration associated with		

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

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





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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.

NZ / EN