according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
8.5	09/28/2024	656972-00019	Date of first issue: 05/02/2016

SECTION 1. IDENTIFICATION

Product name	:	Methyl Salicylate / Diclofenac Formulation					
Manufacturer or supplier's details							
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065					
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com					
Recommended use of the chemical and restrictions on use							
Recommended use Restrictions on use	:	Veterinary product Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Serious eye damage	:	Category 1		
Skin sensitization	:	Category 1		
Reproductive toxicity	:	Category 2		
Specific target organ toxicity - repeated exposure	:	Category 1 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate)		
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	 H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure. 		
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust, fume, gas, mist, vapors or spray. P264 Wash skin thoroughly after handling.		

according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

	P272 Contaminat the workplace.	drink or smoke when using this product. ed work clothing must not be allowed out of ctive gloves, protective clothing, eye protection			
		и .			
	Response:				
	 P302 + P352 IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously w water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. P308 + P313 IF exposed or concerned: Get medical attention P333 + P313 If skin irritation or rash occurs: Get medical attention. P363 Wash contaminated clothing before reuse. Storage: 				
	-				
	P501 Dispose of contents and container to an approved waste				
		P305 + P351 + P3 water for several and easy to do. C CENTER. P308 + P313 IF e P333 + P313 If sk tion. P363 Wash conta Storage: P405 Store locked Disposal:			

Other hazards

None known.

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	>= 1 - < 5			
Sodium [2-[(2,6-	15307-79-6	>= 1 - < 5			
dichlorophenyl)amino]phenyl]acetate					
(+)-Bornan-2-one	464-49-3	>= 1 - < 5			

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice 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.

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

Version 8.5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016		
In cas	se of eye contact	: In case of cor for at least 15			
lf swa	llowed	Get medical a : If swallowed, Get medical a	 If easy to do, remove contact lens, if worn. Get medical attention immediately. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. 		
	important symptoms ffects, both acute and ed	: May cause ar Causes serio Suspected of Causes dama	 May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated 		
Prote	ction of first-aiders	and use the r	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).		
Notes	s to physician	: Treat sympto	matically and supportively.		

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. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.



Methyl Salicylate / Diclofenac Formulation

Version 8.5	Revision Date: 09/28/2024	 S Number: 972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
		Retain and dispose	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ned.
Methods and materials for containment and cleaning up		container for disp Local or national disposal of this m employed in the c determine which Sections 13 and	uum up spillage and collect in suitable osal. 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. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
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	: Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Petrolatum	8009-03-8	TWA (Mist)	5 mg/m³	OSHA Z-1
		TWA (Inhal-	5 mg/m³	ACGIH



according to the OSHA Hazard Communication Standard

sion	Revision Date: 09/28/2024	SDS Number: 656972-00019		t issue: 09/30/2023 t issue: 05/02/2016	
I		I	able particu-	I	1
			late matter)		
			TWA (Mist)	5 mg/m ³	NIOSH RE
			ST (Mist)	10 mg/m ³	NIOSH RE
Zinc c	oxide	1314-13-2	TWA (Res-	2 mg/m ³	ACGIH
			pirable par-	5	
			ticulate mat-		
			ter)		
			STEL (Res-	10 mg/m ³	ACGIH
			pirable par-		
			ticulate mat-		
			ter)		
			TWA (Dust)	5 mg/m³	NIOSH RE
			TWA	5 mg/m³	NIOSH RE
			(Fumes)		
			ST (Fumes)	10 mg/m ³	NIOSH RE
			C (Dust)	15 mg/m ³	NIOSH RE
			TWA	5 mg/m³	OSHA Z-1
			(Fumes)		
			TWA (total	15 mg/m³	OSHA Z-1
			dust)	- / 2	
			TWA (respir-	5 mg/m³	OSHA Z-1
0 1		45007 70 0	able fraction)		
dichlo	m [2-[(2,6-	15307-79-6	TWA	100 µg/m3 (OEB	Internal
	-			2)	
pheny	/l)amino]phenyl]acetate	Further inform	ation: Skin		
	ornan-2-one	464-49-3	TWA	2 mg/m ³	OSHA Z-1
(+)-D(404-49-3	TWA	, , , , , , , , , , , , , , , , , , ,	ACGIH
			STEL	2 ppm 3 ppm	ACGIH
			TWA		NIOSH RE
			IVVA	2 mg/m ³	

Engineering measures : Personal protective equipmen	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
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 supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Hand protection	
Material :	Chemical-resistant gloves
Remarks :	Choose gloves to protect hands against chemicals depending



according to the OSHA Hazard Communication Standard

Methyl Salicylate / Diclofenac Formulation

Version 8.5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016				
		time is not dete For special appresistance to c gloves with the breaks and at	tration specific to place of work. Breakthrough ermined for the product. Change gloves often! plications, we recommend clarifying the hemicals of the aforementioned protective glove manufacturer. Wash hands before the end of workday.				
Eye p	protection	: Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield					
Skin	and body protection	resistance data potential.	iate protective clothing based on chemical a and an assessment of the local exposure nust be avoided by using impervious protective				
Hygie	ene measures	clothing (glove : If exposure to eye flushing sy working place. When using do Contaminated workplace.	s, aprons, boots, etc). chemical is likely during typical use, provide vstems and safety showers close to the				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	ointment
Color	:	light red
Odor	:	aromatic
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 classified as a flammability hazard
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available





Methyl Salicylate / Diclofenac Formulation

Vers 8.5	sion	Revision Date: 09/28/2024		S Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
	Vapor p	pressure	:	No data available	9
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available)
		n coefficient: n-	:	No data available	9
	octanol, Autoign	/water iition temperature	:	No data available	9
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle Particle	characteristics 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

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: 4,005 mg/kg



according to the OSHA Hazard Communication Standard

ersion 5	Revision Date: 09/28/2024		9S Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
			Method: Calculati	on method
Acute	inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Com	oonents:			
Petro	latum:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD To Remarks: Based o	
Acute	e dermal toxicity	:	toxicity	
Zinc	oxide:			
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5.7 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity	
Meth	yl salicylate:			
Acute	oral toxicity	:	LD50 (Rat): 890 n	ng/kg
Sodiı	ım [2-[(2,6-dichlorophe	nyl)amino]phenyl]ac	etate:
Acute	oral toxicity	:	LD50 (Rat): 55 - 2	240 mg/kg
			LD50 (Mouse): 17	70 - 389 mg/kg
	toxicity (other routes of nistration)	:	LD50 (Rat): 97 - 1 Application Route	
			LD50 (Mouse): 92 Application Route	
. ,	ornan-2-one:		LD50 (Mouse): >	300 - 2 000 ma/ka

SAFETY DATA SHEET according to the OSHA Hazard Communication Standard



Version 8.5	Revision Date: 09/28/2024		OS Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
			Remarks: Based	on data from similar materials
			Method: Expert ju	imate (Humans): > 50 - 500 mg/kg udgment on data from similar materials
Acute	inhalation toxicity	:	Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Remarks: Based	00 mg/kg on data from similar materials
-	corrosion/irritation lassified based on avai	ilable	information.	
Com	ponents:			
Petro Speci Metho Resul Rema	od It	:	Rabbit OECD Test Guide No skin irritation Based on data fro	eline 404 om similar materials
Zinc Speci Metho Resul	bd	:	Rabbit OECD Test Guide No skin irritation	eline 404
Meth Speci Metho Resu	bc	:	Rabbit OECD Test Guide No skin irritation	eline 404
Sodiu	um [2-[(2,6-dichloroph	heny)amino]phenyl]ac	setate:
Resu	lt	:	irritating	
(+)-B o Speci Resul Rema	lt	:	Rabbit No skin irritation Based on data fro	om similar materials
Serio	us eye damage/eye ir	rritati	ion	
	es serious eye damage	Э.		
<u>Com</u>	ponents:			
Petro Speci	es	:	Rabbit	

according to the OSHA Hazard Communication Standard

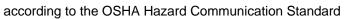


ersion .5	Revision Date: 09/28/2024		DS Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
Result Metho Rema	d	:	No eye irritation OECD Test Guid Based on data fre	leline 405 om similar materials
Zinc o	oxide:			
Specie		:	Rabbit	
Result Metho		:	No eye irritationOECD Test Guideline 405	
Methy	vl salicylate:			
Specie		:	Tissue Culture	
Metho	D	:	OECD Test Guid	eline 491
Result	t	:	Irreversible effec	ts on the eye
	m [2-[(2,6-dichlorop	ohenyl	, ., , .	
Result	t	: Mild eye irritation		I
(+)-Bo	ornan-2-one:			
Result Rema		:	Eye irritation Based on data fro	om similar materials
Respi	ratory or skin sensi	itizatio	n	
-	ratory or skin sensi sensitization	itizatio	n	
Skin s	-			
Skin s May ca Respi	sensitization	reactio	on.	
Skin s May ca Respi Not cla	sensitization ause an allergic skin ratory sensitization	reactio	on.	
Skin s May ca Respi Not cla	sensitization ause an allergic skin ratory sensitization assified based on ava conents:	reactio	on.	
Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T	sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype	reactio	on. information. Buehler Test	
Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes	sensitization ause an allergic skin ratory sensitization assified based on ava conents: latum: ype s of exposure	reactio	on. information. Buehler Test Skin contact	
Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes Specie Result	sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype s of exposure es	reactio	on. information. Buehler Test Skin contact Guinea pig negative	
Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Route Specie	sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype s of exposure es	reactio	on. information. Buehler Test Skin contact Guinea pig negative	om similar materials
Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes Specie Result	sensitization ause an allergic skin ratory sensitization assified based on ava conents: latum: ype s of exposure es t rks	reactio	on. information. Buehler Test Skin contact Guinea pig negative	om similar materials
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T	sensitization ause an allergic skin ratory sensitization assified based on avain conents: latum: Type s of exposure es t rks	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes	
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T Routes	sensitization ause an allergic skin ratory sensitization assified based on avain onents: latum: Type s of exposure es trks oxide: Type s of exposure	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fre Maximization Tes Skin contact	
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T	sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es trks oxide: Type s of exposure es	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes	st
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T Routes Specie	sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es t rks byide: Type s of exposure es t s of exposure es	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes Skin contact Guinea pig	st
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remai Zinc o Test T Routes Specie Metho Result	sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es t rks byide: Type s of exposure es t s of exposure es	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Test Skin contact Guinea pig OECD Test Guid	st
Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remai Zinc o Test T Routes Specie Metho Result Methy Test T	sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: ype s of exposure es t rks oxide: ype s of exposure es t rks	reactio	on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Test Skin contact Guinea pig OECD Test Guid	st Ieline 406

according to the OSHA Hazard Communication Standard



Version 8.5	Revision Date: 09/28/2024		S Number: 5972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
	ecies sult	:	Mouse positive	
As	sessment	:	Probability or e rate in humans	vidence of low to moderate skin sensitization
Te Ro Sp Me Re	-Bornan-2-one: st Type utes of exposure ecies thod sult marks	:	Buehler Test Skin contact Guinea pig OECD Test Gu negative Based on data	ideline 406 from similar materials
No	rm cell mutagenicity t classified based on ava mponents:	ailable	information.	
Pe	trolatum:			
Ge	notoxicity in vitro	:	Result: negativ	omosome aberration test in vitro e ed on data from similar materials
Ge	notoxicity in vivo	:	cytogenetic ass Species: Mous Application Roo Method: OECD Result: negativ	e ute: Intraperitoneal injection Test Guideline 474
7ir	ic oxide:			
	notoxicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
				itro mammalian cell gene mutation test Test Guideline 476 cal
			Test Type: Chr Result: equivoo	omosome aberration test in vitro al
Ge	notoxicity in vivo	:	cytogenetic ass Species: Rat Application Rot Method: OECD Result: negativ	ute: inhalation (dust/mist/fume) Test Guideline 474
				t, chromosomal analysis)





/ersion 8.5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
		Species: Ra Application I Result: posit	Route: inhalation (dust/mist/fume)
		cytogenetic Species: Mo Application I	ouse Route: Intraperitoneal injection CD Test Guideline 474
	cell mutagenicity - ssment	-	vidence does not support classification as a germ
Meth	yl salicylate:		
-	toxicity in vitro	: Test Type: 0 Result: nega	Chromosome aberration test in vitro ative
		Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
Sodiı	ım [2-[(2,6-dichlorop	henyl)amino]phen	yl]acetate:
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: N Result: nega	<i>f</i> louse Lymphoma ative
Geno	toxicity in vivo	: Test Type: 0 Species: CH Result: nega	
(+)-B(ornan-2-one:		
Geno	toxicity in vitro	Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials
		Method: OE Result: nega	n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials
		Test Type: 0 Result: nega	Chromosome aberration test in vitro ative
Geno	toxicity in vivo	cytogenetic Species: Mo Application I Result: nega	Route: Ingestion

according to the OSHA Hazard Communication Standard



ersion 5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
		cytogenetic assay) Species: Mouse Application Route: Result: negative	
Carci	nogenicity		
Not cl	assified based on av	ailable information.	
Comp	onents:		
Petro	latum:		
Specie Applic	es cation Route sure time	: Rat : Ingestion : 2 Years : negative	
Zinc o	oxide:		
	cation Route sure time t	: Mouse : Ingestion : 1 Years : negative : Based on data fror	m similar materials
Methy	/I salicylate:		
Specie Applic	es cation Route sure time	: Rat : Ingestion : 2 Years : negative	
Sodiu	um [2-[(2.6-dichloro	phenyl)amino]phenyl]ace	etate:
Specie Applic	es cation Route sure time	: Rat : Oral : 2 Years : negative	
	ation Route	: Mouse : Oral : 2 Years : negative	
IARC			at levels greater than or equal to 0.1% is nfirmed human carcinogen by IARC.
OSHA		nent of this product presen s list of regulated carcinoge	it at levels greater than or equal to 0.1% is ens.
NTP		ent of this product present as a known or anticipated o	at levels greater than or equal to 0.1% is carcinogen by NTP.

according to the OSHA Hazard Communication Standard



Ver 8.5	sion	Revision Date: 09/28/2024		9S Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
	•	ductive toxicity cted of damaging the u	nboi	rn child.	
		onents:			
	Petrola	atum:			
	Effects	on fertility	:	test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening : Ingestion on data from similar materials
	Effects	on fetal development	:	Species: Rat Application Route Result: negative	ro-fetal development : Skin contact on data from similar materials
	Zinc o	xide:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
	Effects	on fetal development	:	Species: Rat Application Route Method: OECD To Result: negative	ro-fetal development : inhalation (dust/mist/fume) est Guideline 414 on data from similar materials
	Methyl	salicylate:			
	Effects	on fertility	:	Test Type: Three- Species: Rat Application Route Result: negative	generation reproduction toxicity study
	Effects	on fetal development	:	Species: Rat Application Route Result: positive Remarks: Based of	on data from similar materials
				Species: Monkey Application Route Result: positive	ro-fetal development : Ingestion on data from similar materials
	Reproc sessme	luctive toxicity - As- ent	:	Some evidence of animal experimen	f adverse effects on development, based on ts.

according to the OSHA Hazard Communication Standard



rsion	Revision Date: 09/28/2024		OS Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
	um [2-[(2,6-dichloroph	enyl		-
Effect	ts on fertility	:	Application Ro	male and female ute: Oral EL: 4 mg/kg body weight
Effect	ts on fetal development	:		
				it
Repro sessn	oductive toxicity - As- nent	:	Suspected of o	damaging the unborn child.
(+)-B	ornan-2-one:			
Effect	ts on fetal development	:	Test Type: Em Species: Rat Application Ro Result: negativ	
	-single exposure lassified based on availa	able	information.	
Com	oonents:			
(+)-B	ornan-2-one:			
	ssment	:		piratory irritation. from similar materials
STOT	-repeated exposure			
	es damage to organs (C gh prolonged or repeate			, Blood, lymphatic system, Liver, Prostate)
Com	oonents:			
Zinc	oxide:			
Asses	ssment	:	No significant tions of 0.2 mg	health effects observed in animals at concent ///6h/d or less.
Sodiu	um [2-[(2,6-dichloroph	enyl)amino]phenyl]acetate:
Targe	et Organs ssment	:	Gastrointestina	al tract, Blood, lymphatic system, Liver, Prost ge to organs through prolonged or repeated

according to the OSHA Hazard Communication Standard



ersion 5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
Rene	ated dose toxicity		
•	ponents:		
	platum:		
		: Rat	
Spec NOAI		: 5,000 mg/kg	
-	cation Route	: Ingestion	
	sure time	: 2 y	
Zinc	oxide:		
Spec	ies	: Rat, male	
NOA		: 0.0015 mg/l	
	cation Route	: inhalation (dus	st/mist/fume)
	sure time	: 3 Months	
Metho	od	: OECD Test Gu	uideline 413
	yl salicylate:		
Spec		: Rat	
NOA		: 50 mg/kg	
LOAE		: 250 mg/kg	
	cation Route sure time	: Ingestion : 2 y	
Слро		. <i>2</i> y	
Sodiu	um [2-[(2,6-dichloro	ohenyl)amino]phenyl]acetate:
Spec		: Rat	
LOAE		: 0.25 mg/kg	
	cation Route	: Oral	
	sure time	: 98 w	alter at Dia ad here hat's avetage liver. Draat
Targe	et Organs	: Gastrointestina	al tract, Blood, lymphatic system, Liver, Prost
Spec		: Dog	
LOAE		: 1 mg/kg	
	cation Route	: Oral	
	sure time	: 12 w	
large	et Organs	: Blood	
Spec		: Baboon	
NOA		: 0.5 mg/kg	
LOAE		: 5 mg/kg	
	cation Route	: Oral	
	sure time	: 52 w	al tra st. Dis a d
	et Organs	: Gastrointestina	•
Symp	otoms	: constipation, D	אוווידים
(+)-B	ornan-2-one:		
Spec	ies	: Rat	

Species	:	Rat
NOAEL	:	> 200 mg/kg
Application Route	:	Skin contact
Exposure time	:	13 Weeks

according to the OSHA Hazard Communication Standard



ersi .5	ion	Revision Date: 09/28/2024		9S Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
	Remarl	ks	:	Based on data fro	om similar materials
	-	tion toxicity ssified based on availa	ble	information.	
	Experie	ence with human exp	osu	ire	
	Compo	onents:			
	Sodiun Ingestic	n [2-[(2,6-dichlorophe on	enyl) :	Symptoms: Abdor	etate: minal pain, Diarrhea, constipation, heartburn ess, Headache, Breathing difficulties, Rash
EC	TION 1	2. ECOLOGICAL INFO	DRN	IATION	
	Ecotox	vicity			
		•			
		onents:			
	Petrola Toxicity	atum: / to fish	:	Exposure time: 96 Test substance: V Method: OECD T	Vater Accommodated Fraction
		/ to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V	nagna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction on data from similar materials
	Toxicity plants	/ to algae/aquatic	:	100 mg/l Exposure time: 72 Test substance: V Method: OECD T	Vater Accommodated Fraction
÷		/ to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 2 ² Test substance: V	nagna (Water flea)): 10 mg/l l d Vater Accommodated Fraction on data from similar materials
	Zinc o	xide:			
		/ to fish	:	Exposure time: 96	
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.136 2 h
				NOEC (Pseudoki	rchneriella subcapitata (green algae)): > 0.0°



according to the OSHA Hazard Communication Standard

Version 8.5	Revision Date: 09/28/2024		0S Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
			- 0.1 mg/l Exposure time: 72 Remarks: Based o	2 h on data from similar materials
To» icity	<pre>kicity to fish (Chronic tox- /)</pre>	:	Exposure time: 14	a floridae (flagfish)): > 0.01 - 0.1 mg/l I Weeks on data from similar materials
aqu	cicity to daphnia and other natic invertebrates (Chron- oxicity)	:	Exposure time: 7	nnia dubia (water flea)): > 0.01 - 0.1 mg/l d on data from similar materials
Me	thyl salicylate:			
	kicity to fish	:	mg/l Exposure time: 96	s promelas (fathead minnow)): > 10 - 100 S h on data from similar materials
	cicity to daphnia and other atic invertebrates	:	Exposure time: 48 Method: OECD Te	
To» plai	cicity to algae/aquatic nts	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
			NOEC (Desmode: Exposure time: 72 Method: OECD Te	
То	cicity to microorganisms	:	EC10 (Pseudomo Exposure time: 16	nas putida): 140 mg/l S h
So	dium [2-[(2,6-dichlorophe	enyl)amino]phenyl]ac	etate:
То>	cicity to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
	cicity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
To» plai	vicity to algae/aquatic nts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	

according to the OSHA Hazard Communication Standard



ersion 5	Revision Date: 09/28/2024		OS Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time:	nales promelas (fathead minnow)): 0.32 mg/l 32 d r Test Guideline 210
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time:	a magna (Water flea)): 10 mg/l 21 d Test Guideline 211
(+)-B	ornan-2-one:			
Toxic	ity to fish	:	Exposure time: Method: OECD	erio (zebra fish)): > 10 - 100 mg/l 96 h 9 Test Guideline 203 ed on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: Method: OECD	a magna (Water flea)): > 1 - 10 mg/l 48 h 9 Test Guideline 202 ed on data from similar materials
Toxic plants	ity to algae/aquatic	:	10 mg/l Exposure time: Method: OECD	okirchneriella subcapitata (green algae)): > 1 - 72 h 9 Test Guideline 201 ed on data from similar materials
			- 0.1 mg/l Exposure time: Method: OECD	okirchneriella subcapitata (green algae)): > 0.0 72 h 9 Test Guideline 201 ed on data from similar materials
Toxic	ity to microorganisms	:		
Persi	stence and degradabili	ity		
<u>Com</u>	ponents:			
	egradability	:	Biodegradation Exposure time: Method: OECD	
Meth	yl salicylate:			
	gradability	:	Result: Readily Biodegradation Exposure time:	

according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

/ersion 8.5	Revision Date: 09/28/2024	SDS Number: 656972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
• •	ornan-2-one: gradability	Method: OEC	ly biodegradable. D Test Guideline 301F sed on data from similar materials
Bioad	cumulative potentia	I	
Com	oonents:		
	oxide: cumulation		orhynchus mykiss (rainbow trout) tion factor (BCF): 78 - 2,060
Partiti	yl salicylate: ion coefficient: n- ol/water	: log Pow: 2.55	
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]pheny	l]acetate:
	ion coefficient: n- ol/water	: log Pow: 4.51	
Partiti	ornan-2-one: ion coefficient: n- ol/water	: log Pow: 2.3	
	l ity in soil ata available		
	r adverse effects ata available		

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

UNRTDG UN number Proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Zinc oxide, Sodium [2-[(2,6- disblarenham/laminalnham/lagatata)	OLID,
Class	dichlorophenyl)amino]phenyl]acetate) 9	



according to the OSHA Hazard Communication Standard

Methyl Salicylate / Diclofenac Formulation

rsion	Revision Date: 09/28/2024		OS Number: 6972-00019	Date of last issue: 09/30/2023 Date of first issue: 05/02/2016
Packir	ng group	:	III	
Labels		:	9	
Enviro	onmentally hazardous	:	yes	
IATA-	DGR			
UN/ID	No.	:	UN 3077	
Prope	r shipping name	:	Environmentally I	nazardous substance, solid, n.o.s.
			(Zinc oxide, Sodi	ium [2-[(2,6- nino]phenyl]acetate)
Class			9	ninojphenyijacetate)
	ng group	:	9 III	
Labels		:	Miscellaneous	
	ng instruction (cargo	:	956	
aircraf		·	330	
Packir	ng instruction (passen-	:	956	
ger air				
	onmentally hazardous	•	yes	
	-Code			
UN nu		:	UN 3077	
Prope	r shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
				um [2] [/2 6
			(Zinc oxide, Sodi	nino]phenyl]acetate)
Class		:	9	
Packir	ng group	:	111	
Labels		:	9	
EmS (Code	:	F-A, S-F	
Marine	e pollutant	:	yes	
Trans	port in bulk according	j to	Annex II of MARF	OL 73/78 and the IBC Code
Trans			olied.	
	oplicable for product as	sup	1	
Not ap	oplicable for product as estic regulation	sup		
Not ap Dome 49 CF	estic regulation	sup		
Not ap Dome 49 CF UN/ID	restic regulation R /NA number	sup :	UN 3077	
Not ap Dome 49 CF UN/ID	estic regulation		UN 3077 Environmentally I	nazardous substance, solid, n.o.s.
Not ap Dome 49 CF UN/ID	restic regulation R /NA number		UN 3077 Environmentally I (Zinc oxide, Sodi	ium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope	restic regulation R /NA number		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar	
Not ap Dome 49 CF UN/ID Prope	estic regulation R /NA number r shipping name		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9	ium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope Class Packir	estic regulation R /NA number r shipping name		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III	ium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope Class Packir Labels	estic regulation R /NA number r shipping name ng group		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9	ium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (estic regulation R /NA number r shipping name ng group s Code		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171	ium [2-[(2,6- nino]phenyl]acetate)
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (estic regulation R /NA number r shipping name ng group		UN 3077 Environmentally f (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S	ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine	estic regulation R /NA number r shipping name ng group S Code e pollutant		UN 3077 Environmentally f (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar	ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate)
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (estic regulation R /NA number r shipping name ng group S Code e pollutant		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on	ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6-
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine	estic regulation R /NA number r shipping name ng group S Code e pollutant		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on liters.	ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate) ly to containers over 119 gallons or 450
Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine	estic regulation R /NA number r shipping name ng group S Code e pollutant		UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on liters. Shipment by grou	ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate)

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

according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
8.5	09/28/2024	656972-00019	Date of first issue: 05/02/2016

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

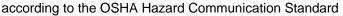
This material does not contain any components with a section 304 EHS RQ.

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		icity	r repeated exposure)
SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313:		
	Zinc oxide	1314-13-2	>= 10 - < 20 %
US State Regulations			
Pennsylvania Right To Know Petrolatum Zinc oxide Methyl salicylate (+)-Bornan-2-one California List of Hazardous S Petrolatum	Substances		8009-03-8 1314-13-2 119-36-8 464-49-3 8009-03-8
Zinc oxide Methyl salicylate (+)-Bornan-2-one			1314-13-2 119-36-8 464-49-3
California Permissible Expos	ure Limits for Chen	nical Contaminants	
Petrolatum Zinc oxide (+)-Bornan-2-one			8009-03-8 1314-13-2 464-49-3
The ingredients of this produ	ct are reported in tl	he following invente	ories:
AICS	not determined		
DSL	: not determined		

IECSC : not determined





Methyl Salicylate / Diclofenac Formulation

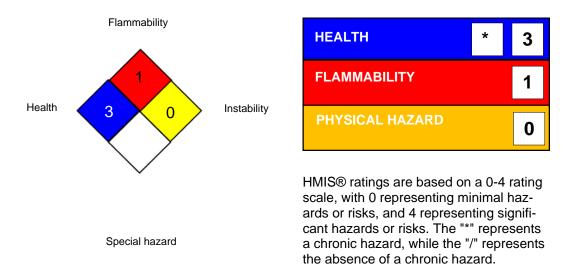
Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
8.5	09/28/2024	656972-00019	Date of first issue: 05/02/2016

SECTION 16. OTHER INFORMATION

Further information



HMIS® IV:



Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA ACGIH / STEL		8-hour, time-weighted average Short-term exposure limit
NIOSH REL / TWA		Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C OSHA Z-1 / TWA		Ceiling value not be exceeded at any time. 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% response; EMS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EMS - 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 Chemical



according to the OSHA Hazard Communication Standard

Methyl Salicylate / Diclofenac Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
8.5	09/28/2024	656972-00019	Date of first issue: 05/02/2016

cals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, 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 : In	ternal technical data, data from raw material SDSs, OECD
	Chem Portal search results and European Chemicals Agen- , http://echa.europa.eu/

Revision Date : 09/28/2024

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.

US / Z8