

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
11.1	28.09.2024	657442-00020	Date of first issue: 02.05.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier Trade name	: Methyl Salicylate / Diclofenac Formulation	
1.2 Relevant identified uses of t	he substance or mixture and uses advised again	st
Use of the Sub- stance/Mixture	: Veterinary product	
Recommended restrictions on use	: Not applicable	
1.3 Details of the supplier of the	safety data sheet	
Company	: MSD Kilsheelan Clonmel Tipperary, IE	
Telephone	: 353-51-601000	
E-mail address of person responsible for the SDS	: EHSDATASTEWARD@msd.com	

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1 Skin sensitisation, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Category 2 H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H361d: Suspected of damaging the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazaro	d statements	H318 Causes s H361d Suspecte H373 May caus repeated exposur	ee an allergic skin reaction. erious eye damage. d of damaging the unborn child. se damage to organs through prolonged or re. aquatic life with long lasting effects.
Precau	utionary statements	P273 Avoid rele	pecial instructions before use. ease to the environment. tective gloves/ protective clothing/ eye protec- on.
		with water for sev sent and easy to POISON CENTE	exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label: Methyl salicylate Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Zinc oxide	1314-13-2	Aquatic Acute 1;	>= 10 - < 20

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		215-222-5 030-013-00-7	H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
Methy	yl salicylate	119-36-8 204-317-7 607-749-00-8	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1B; H317 Repr. 2; H361d Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 890 mg/kg)
	ım [2-[(2,6- prophenyl)amino]phenyl]ac	15307-79-6 239-346-4	Acute Tox. 3; H301 >= 1 - < 2,5 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT RE 1; H372 (Gastrointestinal tract, Blood, lym- phatic system, Liv- er, Prostate) Aquatic Chronic 2; H411	5
(+)-Bo	ornan-2-one	464-49-3 207-355-2	Flam. Sol. 2; H228>= 1 - < 2,5	5

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

4.1 Description of first aid meas	ure	S
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.
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.
4.2 Most important symptoms a	nd e	effects, both acute and delayed
Risks	:	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.
4.3 Indication of any immediate	me	dical attention and special treatment needed
Treatment		Treat symptomatically and supportively.
SECTION 5: Firefighting mea	sur	es
5.1 Extinguishing media		

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
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Unsuitable extinguishing : None known.



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media

5.2 Special hazards arising from the substance or mixture

	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
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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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. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for co	ntainment and cleaning up
Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Local or national regulations may apply to releases and dis-

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.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by



Commission Regulation (EU) 2020/878

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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 : Advice on safe handling :	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours 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 as- sessment 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.
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, in	cluding 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 Self-reactive substances and mixtures Organic peroxides Explosives Gases
7.3 Specific end use(s)	
Specific use(s)	No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Petrolatum	8009-03-8	TWA (Vapour)	50 mg/m3	FOR-2011- 12-06-1358
		TWA (Mist and particles)	1 mg/m3	FOR-2011- 12-06-1358



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Zinc	oxide	1314-13-2	TWA	5 mg/m3	FOR-2011- 12-06-1358
dichlo phe-	nino]phenyl]a	15307-79-6	TWA	100 µg/m3 (OEB 2)	Internal
		Further information: Skin			
(+)-Bo	ornan-2-one	464-49-3	TWA	2 ppm 12 mg/m3	FOR-2011- 12-06-1358
			STEL	3 ppm	FOR-2011- 12-06-1358

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Methyl salicylate	Workers	Inhalation	Long-term systemic effects	17,5 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	285 mg/m3
	Workers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	213 mg/m3
	Consumers	Skin contact	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	5 mg/kg bw/day
Zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,5 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
(+)-Bornan-2-one	Workers	Inhalation	Long-term systemic effects	17,632 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,348 mg/m3
	Consumers	Skin contact	Long-term systemic	5 mg/kg

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		effects	bw/day
Consumers	Ingestion	Long-term systemic effects	5 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Methyl salicylate	Fresh water	20 µg/l
	Marine water	2 µg/l
	Intermittent use/release	200 µg/l
	Sewage treatment plant	140 mg/l
	Fresh water sediment	0,33 mg/kg
	Marine sediment	0,033 mg/kg
	Soil	0,35 mg/kg
Petrolatum	Oral (Secondary Poisoning)	9,33 mg/kg food
Zinc oxide	Fresh water	20,6 µg/l
	Marine water	6,1 µg/l
	Sewage treatment plant	100 µg/l
	Fresh water sediment	117,8 mg/kg dry
		weight (d.w.)
	Marine sediment	56,5 mg/kg dry
		weight (d.w.)
	Soil	35,6 mg/kg dry
		weight (d.w.)
(+)-Bornan-2-one	Fresh water	1,71 µg/l
	Freshwater - intermittent	17,1 μg/l
	Marine water	0,171 μg/l
	Marine water - intermittent	1,71 μg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	0,139 mg/kg dry
		weight (d.w.)
	Marine sediment	0,017 mg/kg dry
		weight (d.w.)
	Soil	0,013 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

Engineering measures

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

Personal protective equipment							
		Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield Equipment should conform to NS EN 166					
Hand protection							
Material	:	Chemical-resistant gloves					
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub-					



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Skin and body protection		 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. Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure poten- 				
Respiratory protection		tial. Skin contact clothing (glov : If adequate l sure assessr ommended g Equipment s	 tial. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387 			
Fil	ter type	: Combined pa	articulates and organic vapour type (A-P)			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	ointment
Colour	:	light red
Odour	:	aromatic
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	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
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available

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N	∕iscosi Visc	ity cosity, kinematic	:	No data available	9	
Solubility(ies) Water solubility		:	No data available	e		
Partition coefficient: n- octanol/water			:	No data available	e e e e e e e e e e e e e e e e e e e	
Vapour pressure		rpressure	:	No data available	e	
Relative density		e density	: No data available			
Density		/	:	No data available	e	
Relative vapour density		e vapour density	:	No data available	9	
Particle characteristics Particle size			:	No data available	e	
		nformation				
E	Explosi	ives	:	Not explosive		
C	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.	
E	Evapor	ation rate	:	No data available	9	
Ν	Molecu	ılar weight	:	No data available	e	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous	reactio	ons
Hazardous reactions	:	Can react with strong oxidizing agents
10.4 Conditions to avoid		
Conditions to avoid	:	None known.

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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10.6 Hazardous decomposition products

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 availa	ble	information.	
Product:			
Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method	
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	
Components:			
Zinc oxide:			
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg	
Acute inhalation toxicity	:	LC50 (Rat): > 5,7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhi- tion toxicity	
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute der toxicity	
Methyl salicylate:			
Acute oral toxicity	:	LD50 (Rat): 890 mg/kg	
Sodium [2-[(2,6-dichlorophe	eny)amino]phenyl]acetate:	
Acute oral toxicity	:	LD50 (Rat): 55 - 240 mg/kg	
		LD50 (Mouse): 170 - 389 mg/kg	
Acute toxicity (other routes of administration)	:	LD50 (Rat): 97 - 161 mg/kg Application Route: Intravenous	
		LD50 (Mouse): 92 - 147 mg/kg	



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		Application Route: Intravenous
(+)-B	ornan-2-one:	
• •	e oral toxicity	: LD50 (Mouse): > 300 - 2.000 mg/kg Remarks: Based on data from similar materials
		Acute toxicity estimate (Humans): > 50 - 500 mg/kg Method: Expert judgement Remarks: Based on data from similar materials
Acute	inhalation toxicity	 LC50 (Rat): > 0,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on data from similar materials
Acute	e dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Remarks: Based on data from similar materials
	corrosion/irritation	
	lassified based on ava	ilable information.
<u>Com</u>	oonents:	
	oxide:	
Speci		: Rabbit
Metho Resu		: OECD Test Guideline 404 : No skin irritation
Meth	yl salicylate:	
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Resu	lt	: No skin irritation
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]phenyl]acetate:
Resu	lt	: irritating
(+)-B	ornan-2-one:	
Speci		: Rabbit
Resu		: No skin irritation
Rema	arks	: Based on data from similar materials
Serio	us eye damage/eye	rritation
Caus	es serious eye damag	е.
Com	oonents:	
Zinc	oxide:	
Speci Metho		: Rabbit : OECD Test Guideline 405



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Resul	t	: No eye irritation		
Methy	yl salicylate:			
Speci		: Tissue Culture		
Metho	bd	: OECD Test Guideline 491		
Resul	t	Irreversible effects on the eye		
Sodiu	ım [2-[(2,6-dichloro	phenyl)amino]phenyl]acetate:		
Resul	t	: Mild eye irritation		
(+)-Bo	ornan-2-one:			
Resul	t	: Eye irritation		
Rema	arks	: Based on data from similar materials		
Resp	iratory or skin sens	itisation		
Skin s	sensitisation			
May c	ause an allergic skin	reaction.		
Resp	ause an allergic skin iratory sensitisation assified based on av	1		
Resp Not cl	iratory sensitisation	1		
Respi Not cl	iratory sensitisation assified based on av	1		
Respi Not cl Comp Zinc o Test 1	iratory sensitisation assified based on av ponents: pxide: Type	ailable information. : Maximisation Test		
Respi Not cl Comp Zinc o Test T Expos	iratory sensitisation assified based on av <u>conents:</u> cxide: Type sure routes	ailable information. : Maximisation Test : Skin contact		
Respi Not cl Comp Zinc o Test T Expos Speci	iratory sensitisation assified based on av <u>ponents:</u> oxide: Type sure routes es	ailable information. : Maximisation Test : Skin contact : Guinea pig		
Respi Not cl Comp Zinc o Test T Expos	iratory sensitisation assified based on av <u>ponents:</u> oxide: Type sure routes es od	ailable information. : Maximisation Test : Skin contact		
Respi Not cl Comp Zinc o Test T Expos Speci Metho Resul	iratory sensitisation assified based on av <u>ponents:</u> oxide: Type sure routes es od t	ailable information.		
Respi Not cl Comp Zinc o Test 1 Expos Speci Metho Resul	iratory sensitisation assified based on av ponents: oxide: Type sure routes es od it yl salicylate:	ailable information. : Maximisation Test : Skin contact : Guinea pig : OECD Test Guideline 406 : negative		
Respin Not cl Comp Zinc o Test 1 Expos Speci Metho Resul	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od t yl salicylate: Type sure routes	ailable information.		
Respi Not cl Comp Zinc o Test 1 Expos Speci Metho Resul Methy Test 1 Expos Speci	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od t yl salicylate: Type sure routes es	ailable information.		
Respi Not cl Comp Zinc o Test T Expos Speci Metho Resul Methy Test T Expos Speci Resul	iratory sensitisation assified based on av ponents: oxide: Type sure routes es od t yl salicylate: Type sure routes es es t	ailable information.		
Respi Not cl Comp Zinc o Test T Expos Speci Metho Resul Methy Test T Expos Speci Resul	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od t yl salicylate: Type sure routes es	ailable information.		
Respi Not cl Comp Zinc o Test 1 Expos Speci Metho Resul Methy Test 1 Expos Speci Resul Asses	iratory sensitisation assified based on av ponents: oxide: Type sure routes es od t yl salicylate: Type sure routes es es t	 ailable information. Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Local lymph node assay (LLNA) Skin contact Mouse positive Probability or evidence of low to moderate skin sensitisatio 		
Respi Not cl Comp Zinc o Test 1 Expos Speci Metho Resul Methy Test 1 Expos Speci Resul Asses	iratory sensitisation assified based on av ponents: oxide: Type sure routes es od it yl salicylate: Type sure routes es t ssment	 ailable information. Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Local lymph node assay (LLNA) Skin contact Mouse positive Probability or evidence of low to moderate skin sensitisatio 		
Respined in the second	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od it yl salicylate: Type sure routes es it ssment ornan-2-one: Type sure routes	 ailable information. Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Local lymph node assay (LLNA) Skin contact Mouse positive Probability or evidence of low to moderate skin sensitisation rate in humans Buehler Test Skin contact 		
Respined in the second	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od it yl salicylate: Type sure routes es it ssment ornan-2-one: Type sure routes es	 ailable information. Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Local lymph node assay (LLNA) Skin contact Mouse positive Probability or evidence of low to moderate skin sensitisatio rate in humans Buehler Test Skin contact Skin contact 		
Respined in the second	iratory sensitisation assified based on av <u>conents:</u> oxide: Type sure routes es od t yl salicylate: Type sure routes es t ssment ornan-2-one: Type sure routes es t	 ailable information. Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative Local lymph node assay (LLNA) Skin contact Mouse positive Probability or evidence of low to moderate skin sensitisation rate in humans Buehler Test Skin contact 		

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	Germ cell mutagenicity Not classified based on available information.					
<u>Comp</u>	oonents:					
Zinc	oxide:					
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)		
				o mammalian cell gene mutation test ēest Guideline 476 I		
			Test Type: Chror Result: equivocal	nosome aberration test in vitro		
Geno	toxicity in vivo	:	cytogenetic assa	malian erythrocyte micronucleus test (in vivo y)		
				e: inhalation (dust/mist/fume) est Guideline 474		
			cytogenetic test, Species: Rat	genicity (in vivo mammalian bone-marrow chromosomal analysis) e: inhalation (dust/mist/fume)		
			Test Type: Mamr cytogenetic assa Species: Mouse Application Route	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection ⁻ est Guideline 474		
Germ sessn	cell mutagenicity- As- nent	:	Weight of eviden cell mutagen.	ce does not support classification as a germ		
Methy	yl salicylate:					
-	toxicity in vitro	:	Test Type: Chror Result: negative	nosome aberration test in vitro		
			Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)		
Sodiu	ım [2-[(2,6-dichloroph	env	amino]phenvl]ad	cetate:		
	toxicity in vitro	:		rial reverse mutation assay (AMES)		
			Test Type: Mouse Result: negative	e Lymphoma		
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Genotoxicity in vivo		: Test Type: C Species: CH Result: nega	
. ,	(+)-Bornan-2-one: Genotoxicity in vitro :		Bacterial reverse mutation assay (AMES) ative ased on data from similar materials n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials Chromosome aberration test in vitro ative
Geno	Genotoxicity in vivo		Autagenicity (in vivo mammalian bone-marrow test, chromosomal analysis) puse Route: Ingestion ative ased on data from similar materials Mammalian erythrocyte micronucleus test (in vivo assay) puse Route: Skin contact ative ased on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Zinc oxide:

Species :	Mouse
Application Route :	Ingestion
Exposure time :	1 Years
Result :	negative
Remarks :	Based on data from similar materials

Methyl salicylate:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Sc	Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:							
Sp Ap Ex	pecies oplication Route posure time esult		Rat Oral 2 Years negative					
Ap Ex	pecies oplication Route sposure time esult	:	Mouse Oral 2 Years negative					
Re	eproductive toxicity							
	spected of damaging the u	inbo	rn child.					
	omponents:							
	nc oxide: fects on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials				
	fects on foetal develop- ent	:	Species: Rat Application Route Method: OECD T Result: negative	vo-foetal development e: inhalation (dust/mist/fume) est Guideline 414 on data from similar materials				
Me	ethyl salicylate:							
	fects on fertility	:	Test Type: Three Species: Rat Application Route Result: negative	-generation reproduction toxicity study				
	fects on foetal develop- ent	:	Species: Rat Application Route Result: positive	vo-foetal development : Ingestion on data from similar materials				
			Species: Monkey Application Route Result: positive					
	eproductive toxicity - As- ssment	:	Some evidence o animal experimer	f adverse effects on development, based on nts.				



ersion 1.1	Revision Date: 28.09.2024		OS Number: 7442-00020	Date of last issue: 06.04.2024 Date of first issue: 02.05.2016			
Sodiı	Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:						
	ts on fertility	:	Test Type: Fertilit Species: Rat, ma Application Route	ty le and female e: Oral 4 mg/kg body weight			
Effects on foetal develop- ment		:	: Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 1 mg/kg body weight Result: Embryo-foetal toxicity, No teratogenic effects				
Repro sessr	oductive toxicity - As- nent	:	Suspected of dan	naging the unborn child.			
(+)-B	ornan-2-one:						
Effect ment	ts on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development e: Ingestion			
	Γ - single exposure lassified based on avai	ilable	information.				
Com	ponents:						
(+)-B	ornan-2-one:						
Asses Rema	ssment arks	:	May cause respir Based on data fro	atory irritation. om similar materials			
	F - repeated exposure cause damage to orgar		ough prolonged or	repeated exposure.			
Com	ponents:						
Zinc	oxide:						
Asses	ssment	:	No significant heations of 0.2 mg/l/6	alth effects observed in animals at concentra- Sh/d or less.			
Sodiı	um [2-[(2,6-dichloroph	nenyl)amino]phenyl]ac	setate:			
Targe	et Organs ssment	:	Gastrointestinal t	ract, Blood, lymphatic system, Liver, Prostate to organs through prolonged or repeated			

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Repe	ated dose toxicity		
Com	oonents:		
Zinc	oxide:		
	EL cation Route sure time	: Rat, male : 0,0015 mg/l : inhalation (dust : 3 Months : OECD Test Gu	
Meth	yl salicylate:		
	EL	: Rat : 50 mg/kg : 250 mg/kg : Ingestion : 2 yr	
Sodiu	um [2-[(2,6-dichlorop	henyl)amino]phenyl]	acetate:
Expos		: Rat : 0,25 mg/kg : Oral : 98 w : Gastrointestina	l tract, Blood, lymphatic system, Liver, Prostate
Expos		: Dog : 1 mg/kg : Oral : 12 w : Blood	
Expos	EL EL cation Route sure time et Organs	: Baboon : 0,5 mg/kg : 5 mg/kg : Oral : 52 w : Gastrointestina : constipation, Di	
(+)-Be	ornan-2-one:		
Speci NOAE Applic	es EL cation Route sure time	: Rat : > 200 mg/kg : Skin contact : 13 Weeks : Based on data	from similar materials

Aspiration toxicity

Not classified based on available information.



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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

Sodium [2-[(2,6-dichlorophenyl)amino]phenyl]acetate:						
Ingestion	:	Symptoms: Abdominal pain, Diarrhoea, constipation, heart- burn, Ulceration, Dizziness, Headache, Breathing difficulties, Rash				

SECTION 12: Ecological information

12.1 Toxicity

Components:

Zinc oxide:

Toxicity to fish:LC50 : > 0,1 - 1 mg/l Exposure time: 96 h Remarks: Based on data from similar materialsToxicity to algae/aquatic plants:ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l Exposure time: 72 h NOEC (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l Exposure time: 72 h Remarks: Based on data from similar materialsM-Factor (Acute aquatic tox- icity):1Toxicity to fish (Chronic tox- icity):NOEC: > 0,01 - 0,1 mg/l Exposure time: 14 Weeks Species: Jordanella floridae (flagfish) Remarks: Based on data from similar materialsToxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity):NOEC: > 0,01 - 0,1 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials			
plantsmg/l Exposure time: 72 hNOEC (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l Exposure time: 72 h Remarks: Based on data from similar materialsM-Factor (Acute aquatic tox- icity):1Toxicity to fish (Chronic tox- icity):NOEC: > 0,01 - 0,1 mg/l Exposure time: 14 Weeks Species: Jordanella floridae (flagfish) Remarks: Based on data from similar materialsToxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity):NOEC: > 0,01 - 0,1 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)	Toxicity to fish	:	Exposure time: 96 h
 - 0,1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials M-Factor (Acute aquatic tox- icity) 1 Toxicity to fish (Chronic tox- icity) NOEC: > 0,01 - 0,1 mg/l Exposure time: 14 Weeks Species: Jordanella floridae (flagfish) Remarks: Based on data from similar materials Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) NOEC: > 0,01 - 0,1 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea) 		:	mg/l
icity)NOEC: > 0,01 - 0,1 mg/lToxicity to fish (Chronic tox- icity): NOEC: > 0,01 - 0,1 mg/l Exposure time: 14 Weeks Species: Jordanella floridae (flagfish) Remarks: Based on data from similar materialsToxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity): NOEC: > 0,01 - 0,1 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)			- 0,1 mg/l Exposure time: 72 h
icity)Exposure time: 14 Weeks Species: Jordanella floridae (flagfish) Remarks: Based on data from similar materialsToxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)NOEC: > 0,01 - 0,1 mg/l Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)	· ·	:	1
aquatic invertebrates (Chron- ic toxicity) Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)		:	Exposure time: 14 Weeks Species: Jordanella floridae (flagfish)
	aquatic invertebrates (Chron-	:	Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)



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	M-Facto toxicity)	r (Chronic aquatic	:	1	
	Methyl s	salicylate:			
	Toxicity	•	:	LC50 (Pimephales promelas (fathead minnow)): > 10 - 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials	
		to daphnia and other nvertebrates	:	EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials	
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmodes Exposure time: 72 Method: OECD Te	
				NOEC (Desmodesmus subspicatus (green algae)): 0,79 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
	Toxicity	to microorganisms	:	EC10 (Pseudomonas putida): 140 mg/l Exposure time: 16 h	
	Sodium	[2-[(2,6-dichlorophe	nvl	aminolphonyllac	atato.
	Toxicity		: :		s promelas (fathead minnow)): 166,6 mg/l 5 h
		to daphnia and other nvertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	agna (Water flea)): 80,1 mg/l 3 h est Guideline 202
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0,32 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	lles promelas (fathead minnow)
		to daphnia and other nvertebrates (Chron- y)	:	NOEC: 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211	



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	Bornan-2-one: icity to fish	:	Exposure time: 9 Method: OECD T	o (zebra fish)): > 10 - 100 mg/l 6 h est Guideline 203 on data from similar materials	
	icity to daphnia and other atic invertebrates	:			
Tox plar	icity to algae/aquatic nts	:	10 mg/l Exposure time: 7: Method: OECD T Remarks: Based NOEC (Pseudoki - 0,1 mg/l Exposure time: 7: Method: OECD T	est Guideline 201 on data from similar materials rchneriella subcapitata (green algae)): > 0,01	
Тох	icity to microorganisms	:	EC50 : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials		
12.2 Per	sistence and degradabil	lity			
<u>Cor</u>	nponents:				
	t hyl salicylate: degradability	:	Result: Readily b Biodegradation: Exposure time: 2	98,4 %	
	Bornan-2-one: degradability	:		iodegradable. est Guideline 301F on data from similar materials	
12.3 Bio	accumulative potential				
<u>Cor</u>	nponents:				
	c oxide: accumulation	:		vnchus mykiss (rainbow trout) factor (BCF): 78 - 2.060	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Part	hyl salicylate: ition coefficient: n- nol/water	: log Pow: 2,55	
Sod	ium [2-[(2,6-dichloroph	enyl)amino]phenyl]a	cetate:
	ition coefficient: n- nol/water	: log Pow: 4,51	
Part	Bornan-2-one: ition coefficient: n- nol/water	: log Pow: 2,3	
	bility in soil data available		
12.5 Res	ults of PBT and vPvB	assessment	
Pro	duct:		
Ass	essment	to be either persi	nixture contains no components considered istent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6 End	locrine disrupting prop	perties	
Pro	duct:		
Ass	essment	ered to have end REACH Article 5	nixture does not contain components consid- docrine disrupting properties according to (7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.
12.7 Oth	er adverse effects		

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods Product 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.



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SECTION 14: Transport information

14.1 U	JN number or ID number				
ļ	ADN	:	UN 3077		
A	ADR	:	UN 3077		
F	RID	:	UN 3077		
I	MDG	:	UN 3077		
L	ΑΤΑ	:	UN 3077		
14.2 l	JN proper shipping name				
ļ	ADN	:	ENVIRONMENTALL' N.O.S. (Zinc oxide, Sodium [dichlorophenyl)aming		
ļ	ADR	:	ENVIRONMENTALL' N.O.S. (Zinc oxide, Sodium [dichlorophenyl)aming		
F	RID	:	ENVIRONMENTALL' N.O.S. (Zinc oxide, Sodium [dichlorophenyl)aming		
I	MDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc oxide, Sodium [2-[(2,6- dichlorophenyl)amino]phenyl]acetate)		
L	ΑΤΑ	:	Environmentally haza (Zinc oxide, Sodium [dichlorophenyl)aming		
14.3	Fransport hazard class(es)				
			Class	Subsidiary risks	
A	ADN	:	9		
4	ADR	:	9		
F	RID	:	9		
I	MDG	:	9		
L	ΑΤΑ	:	9		
14.4 I	Packing group				
F C H	ADN Packing group Classification Code Hazard Identification Number Labels	:	III M7 90 9		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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(Hazard Labels	g group cation Code Identification Number restriction code		III M7 90 9 (-)	
 (g group cation Code Identification Number	:	III M7 90 9	
	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F	
 ; 	aircraft)	g instruction (cargo	:	956 Y956 III Miscellaneous	
	Packing ger airc	instruction (LQ)	:	956 Y956 III Miscellaneous	
14.5	Enviro	nmental hazards			
-	ADN Environ	mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) mentally hazardous	:	yes	
	IATA (C Environ	Cargo) mentally hazardous	:	yes	
116	<u> </u>	I processione for use			

14.6 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.



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14.7 Maritime transport in bulk according to IMO instruments

Remarks

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
--	---	---

: Not applicable for product as supplied.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

		not.
REACH - Candidate List of Substances of Very High	:	Not applicable
Concern for Authorisation (Article 59).		
REACH - List of substances subject to authorisation	:	Not applicable
(Annex XIV)		
Regulation (EC) on substances that deplete the ozone	:	Not applicable
layer		
Regulation (EU) 2019/1021 on persistent organic pollu-		Not applicable
tants (recast)	•	
Regulation (EU) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
or dangerous chemicais		

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
E2	ENVIRONMENTAL	200 t	500 t
	HAZARDS		

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

t determined
)

L : not determined

DSL

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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IECS	с	: not determine	ed		
	nical safety assessn al Safety Assessment		d out.		
SECTION	16: Other information	ation			
Other	information		changes have been made to the previous version ed in the body of this document by two vertical		
Full t	ext of H-Statements				
H228 H301 H302 H315 H317 H318 H319 H331 H335 H361 H372 H400 H410 H411 H412	d	 Causes serio Causes serio Toxic if inhale May cause residence Suspected of Causes dama exposure. Very toxic to Very toxic to Toxic to aqua Harmful to action 	owed. rallowed. irritation. n allergic skin reaction. ous eye damage. ous eye irritation. ed. espiratory irritation. f damaging the unborn child. age to organs through prolonged or repeated		
Full t	ext of other abbrevia	ations			
Aqua Eye I Eye I Flam. Repr. Skin I Skin S STOT STOT FOR- FOR- TWA	tic Acute tic Chronic Dam. rrit. Sol. rrit. Sens. RE SE 2011-12-06-1358 2011-12-06-1358 /	 Long-term (c Serious eye of Eye irritation Flammable s Reproductive Skin irritation Skin sensitisa Specific targe Norway. Occ Long term ex 	acute) aquatic hazard hronic) aquatic hazard damage olids e toxicity ation et organ toxicity - repeated exposure et organ toxicity - single exposure cupational Exposure limits cposure limit		
FOR- STEL	2011-12-06-1358 /	: Short term ex	Short term exposure limit		

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; Regula-



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tion (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 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; 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

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixtur	e:		Classification procedure:
Eye Dam. 1	H3 ⁻	8	Calculation method
Skin Sens. 1	H3	17	Calculation method

Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 2	H411	Calculation method

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.

NO / EN