according to Regulation (EC) No. 1907/2006



Nintedanib monoethanesulfonate

Version: 3.7	Revision Date:	25.03.2025	SDS Number: 100000000204
SECTION 1: Ident	ification of the	substance/mix	ture and of the company/undertaking
1.1 Product identified	er		
Trade name	:	Nintedanib mon	oethanesulfonate
REACH Registr	ation Number :	-	
CAS-No.	:	656247-18-6	
Unique Formula	a Identifier :	-	
1.2 Relevant identif	ied uses of the s	ubstance or mix	ture and uses advised against
Use of the Sub- stance/Mixture	:	Active pharmac	eutical ingredients
Recommended on use	restrictions :	No data availab	le
1.3 Details of the su	upplier of the saf	ety data sheet	
Company	:	Fermion Oy	
Street address	:	Koivu-Mankkaa	n tie 6 A
Post-office box:	:	P.O. Box 28	
Postcode	:	02101 Espoo, F	inland
Telephone	;	+358 10 4261	
E-mail address		chemicalsafety	2º orion.fi
responsible for t			
VAT Reg. No:	:	FI18552129	
1.4 Emergency tele	phone number		
Poison Center	:	+358 800 1471 +358 9 471 977	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1BHSpecific target organ toxicity - repeatedHexposure, Category 2IoLong-term (chronic) aquatic hazard, Ca-Htegory 1ef

H360D: May damage the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. H410: Very toxic to aquatic life with long lasting effects.

For explanation of abbreviations see section 16.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal Word

Danger

:

Hazard Statements



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H360D	May damage the	unborn child.		
H373	May cause damage exposure.	ge to organs through prolonged or repeated		
H410	Very toxic to aqua	Very toxic to aquatic life with long lasting effects.		
Precautionary Sta	itements			
General:				
P308 + P313 IF e P281 Use person	exposed or concerned: Get m al protective equipment as re se to the environment.			
P308 + P313 IF e P281 Use person P273 Avoid relea	al protective equipment as re			
P308 + P313 IF e P281 Use person	al protective equipment as re	equired.		
P308 + P313 IF e P281 Use person P273 Avoid relea 3 Other hazards	al protective equipment as rese to the environment.	equired. able		
P308 + P313 IF e P281 Use person P273 Avoid relea 3 Other hazards Other hazards	al protective equipment as rese to the environment. : No data availa	equired. able able		
P308 + P313 IF e P281 Use person P273 Avoid relea 3 Other hazards Other hazards PBT	al protective equipment as rese to the environment. : No data availa : No data availa : No data availa	equired. able able		

3.1 Substances

Chemical name	CAS-No. EC-No. Registration-No	Concentration (% w/w)	M-Factor, SCL, ATE
Nintedanib monoethanesul- fonate	656247-18-6		

Other information : No data available

3.2 Mixtures

Not applicable

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice	: Helpers should ensure their own protection.	
If inhaled	 Remove victim to fresh air and keep at rest in a position confortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention. If the patient is unconscious, must be turned and kept on his/her side during transportation. 	om-
In case of skin contact	: Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.	

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	Get medical advice/attention.				
In case of eye contact	: IF IN EYES: Rinse continuously with water for several minu- tes. Get medical advice/attention.				
If swallowed	: Rinse mouth. If the patient is conscious, give plenty of water (2 - 4 glasses). Get medical advice/attention.				
4.2 Most important symptoms a	and effects, both acute and delayed				
Symptoms	: No data available				
Risks	: No data available				
4.3 Indication of any immediate	e medical attention and special treatment needed				
Treatment	: No data available				
SECTION 5: Firefighting mea	asures				
5.1 Extinguishing media					
Suitable extinguishing media	 Choose suitable extinguishing media according to the environment. Water spray Carbon dioxide (CO2) Dry chemical Foam 				
Unsuitable extinguishing media	: No data available				
5.2 Special hazards arising from	n the substance or mixture				
Specific hazards during fire	: May emit toxic fumes of oxides of carbon, nitrogen and				
fighting	sulphur during heating or fire.				
Hazardous combustion pro- ducts	: No data available				
5.3 Advice for firefighters					
Special protective equipment for fire-fighters	t : Isolating breathing apparatus eg. compressed breathing appa- ratus and protective clothing.				
Specific extinguishing me- thods	: No data available				

 Further information
 : Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

 Extinguishing water must not be discharged into waterways, sewers, soil.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment as required. Keep unprotected persons out of danger area.
		Provide sufficient ventilation.

according to Regulation (EC) No. 1907/2006



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Version: 3.7	Revision Dat	: 25.03.2025 SDS Number: 1000	00000204
6.2 Environmenta	I precautions		
Environmenta	l precautions	Do not put into water system, drain or	r soil.
6.3 Methods and	material for cont	inment and cleaning up	
Methods for c		Collect spilled powder without dusting ner.	g into tight closed contai
6.4 Reference to o See Section 8			
SECTION 7: Har	ndling and stor	ge	
7.1 Precautions for	or safe handling		
Advice on safe	e handling	Handle in well-ventilated space. Keep away from heat/sparks/open fla smoking. Protect from moisture. Wash hands and face thoroughly afte	
7.2 Conditions for	r safe storage, ir	cluding any incompatibilities	
Requirements areas and cor	-	Keep away from heat/sparks/open fla smoking. Protect from sunlight.	mes/hot surfaces - No
		Keep container tightly closed. Keep only in original container.	
		See incompatible materials in section	10.5.
Packaging ma	aterial	Suitable material: No data available Unsuitable material: No data available	e
7.3 Specific end u	ıse(s)		
Specific use(s	3)	No information identified.	
SECTION 8: Exp	osure controls	personal protection	
8.1 Control param			
-		cupational exposure limit values.	
8.2 Exposure con	trols		
Engineering n	neasures	Handle in accordance with good indu procedures.	
		Do not breathe dust/ fume/ das/ mist/	vanors/ snrav

Personal protective equipment

according to Regulation (EC) No. 1907/2006



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Respiratory p	rotection	:	tion factor of 2 See standard	ing use respirator (P3) with a minimum protec- 200. working procedures/instructions or department's r more detailed protection measures.
Eye/face prot	ection	:	Use protective	e goggles.
Hand protecti Remarks	on	:	Wear protectiv	ve gloves.
Skin and bod	y protection	:	Wear protectiv	ve clothing.
Protective me	easures	:	No data availa	able
Environmenta controls	al exposure	:	No data availa	able

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Form : crystalline

Physical state	:	solid
Color	:	yellow
Odor	:	-
Odor Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	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
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposi- tion temperature (SADT)	:	No data available
рН	:	No data available
Viscosity Viscosity, dynamic	:	No data available

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Version: 3.7 Revision Da	ite:	25.03.2025 SDS Number: 10000000204
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies) Water solubility	:	20 g/l insoluble
Solubility in other solvents	:	Solvent: 1 % HCl solution Description: Freely soluble Solvent: dimethylsulfoxide Description: soluble
Dissolution Rate	:	No data available
Partition coefficient: n- octanol/water	:	log Pow: 3,0
Dispersion Stability	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Bulk density	:	No data available
Relative vapor density	:	No data available
Dissociation constant		No data available
Particle characteristics		No data available
9.2 Other information Self-ignition	:	No data available
Hygroscopic properties	:	No data available
Henry's Constant	:	No data available
Further information	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

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10.4 Conditions to avoid	
Conditions to avoid	: No data available
0.5 Incompatible materi Materials to avoid	als : No data available
10.6 Hazardous decompo No data available	osition products
SECTION 11: Toxicolo	gical information
1.1 Information on haza	rd classes as defined in Regulation (EC) No 1272/2008
Acute toxicity	
Acute oral toxicity	: LD50 (Rat): > 2 000 mg/kg LD50 (Mouse): > 2 000 mg/kg
Acute inhalation toxici	ity : No data available
Acute dermal toxicity	: No data available
Acute toxicity (other road administration)	outes of : No data available
Skin corrosion/irrita	tion
Result	: Non-irritant (rabbit)
Serious eye damage	e/eve irritation
Species	: Rabbit
Remarks	: slight irritation
Respiratory or skin s	sensitization
Routes of exposure	: Dermal
Result	: Not sensitizing
Germ cell mutagenio	city
Genotoxicity in vitro	: In vitro experiments showed no mutagenic effects.
Genotoxicity in vivo	: In vivo experiments showed no mutagenic effects.
Carcinogenicity	
No data available	
Reproductive toxicit	ty
Effects on fertility	: No data available

according to Regulation (EC) No. 1907/2006



Nintedanib monoethanesulfonate

	development :	May damage the unborn child. Showed teratogenic and/or emb periments.	pryotoxic effects in animal e
STOT-single e	xposure		
No data availab	le		
STOT-repeated	d exposure		
Assessment	:	May cause damage to organs the exposure.	nrough prolonged or repeate
Repeated dose	e toxicity		
Species	:	Rat	
NOAEL	:	20 mg/kg	
Application Rou	ite :	Oral	
Exposure time	:	28 d	
Species	:	Rat	
NOAEL	:	3 mg/kg	
Application Rou	ite :	Oral	
Exposure time	:	13 Weeks	
Species	:	Rat	
NOAEL	:	5 mg/kg	
Application Rou	ite :	Oral	
Exposure time	:	26 Weeks	
Species	:	Monkey	
NOAEL	:	3 mg/kg	
Application Rou	ite :	Oral	
Exposure time	:	13 Weeks	
Species	:	Monkey	
NOAEL	:	10 mg/kg	
Application Rou	ite :	Oral	
Exposure time	:	52 Weeks	
Species	:	Monkey	
NOAEL	:	5 mg/kg	
Exposure time	:	14 d	
Remarks		intravenous	

No data available

11.2 Information on other hazards

Endocrine disrupting properties No data available

according to Regulation (EC) No. 1907/2006



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rsion: 3.7 Re	Evision Date: 25.03.2025 SDS Number: 10000000204
Experience with h	uman exposure
General Information	: No data available
Inhalation	: No data available
Skin contact	: No data available
Eye contact	: No data available
Ingestion	: No data available
Toxicology, Metab Remarks	olism, Distribution : No data available
	: No data available

Other Health Hazards

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	:	NOEC (Fish): 0,038 mg/l LOEC : 0,12 mg/l
Toxicity to daphnia and other aquatic invertebrates	:	NOEC (Daphnia): 0,24 mg/l Exposure time: 21 d LOEC (Daphnia): 0,81 mg/l Exposure time: 21 d
Toxicity to algae/aquatic plants	:	EC50 (algae): > 1 mg/l Exposure time: 72 h Test Type: Growth rate NOEC (algae): >= 1 mg/l Test Type: Growth inhibition
Toxicity to fish (Chronic toxi- city)	:	No data available
Toxicity to daphnia and other aquatic invertebrates (Chro- nic toxicity)	:	No data available
Toxicity to microorganisms	:	NOEC(activated sludge): >= 1 000 mg/l

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on: 3.7 Revision D	ate:	25.03.2025 SDS Number: 1000000020
		Exposure time: 3 h
Foxicity to soil dwelling orga- nisms	:	No data available
Plant toxicity	:	No data available
Sediment toxicity	:	No data available
Toxicity to terrestrial orga- : nisms		No data available
Ecotoxicology Assessment	t	
Acute aquatic toxicity	:	Very toxic to aquatic life with long lasting effect
Chronic aquatic toxicity	:	No data available
Foxicity Data on Soil	:	No data available
Other organisms relevant to he environment	:	No data available
Persistence and degradabi	litv	
Biodegradability	:	No data available
Biochemical Oxygen De- mand (BOD)	:	No data available
Chemical Oxygen Demand COD)	:	No data available
BOD/COD	:	No data available
ThOD	:	No data available
BOD/ThOD	:	No data available
Dissolved organic carbon DOC)	:	No data available
Physico-chemical removabili- y	- :	No data available
Stability in water	:	No data available
mpact on Sewage Treat-	:	No data available
nent		

12.3 Bioaccumulative potential

Bioaccumulation	: No data available
Bioaccumulation	: No data available

according to Regulation (EC) No. 1907/2006



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Partition coefficient: n- octanol/water	: log Pow: 3,0 According to logP value this compound is not bioaccumulati ve.	i-
12.4 Mobility in soil Mobility	: No data available	
Distribution among environ- mental compartments	: No data available	
Stability in soil	: No data available	
12.5 Results of PBT and vPvB a Assessment	ssessment : No data available	
12.6 Endocrine disrupting prope No data available	rties	
12.7 Other adverse effects		
Environmental fate and pa- thways	: No data available	
Adsorbed organic bound halogens (AOX)	: No data available	
Ozone-Depletion Potential	: No data available	
Additional ecological informa- tion	: No data available	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Chemical incinerator equipped with an afterburner and scrubber is the recommended method of disposal for this material. Observe all local and national regulations when disposing of this material.

SECTION 14: Transport information

14.1 UN number

ADR/RID: UN 3077 IMDG: UN 3077

IATA: UN 3077

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (nintedanib monoethane-sulfonate)

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14.3 Transport hazard class(es) (ADR/RID, IMDG, ICAO/IATA)					
ADR/RID: 9		IMDG: 9		IATA: 9	
14.4 Packing group ADR/RID: III		IMDG: III		IATA: III	
14.5 Environmental ADR/RID: -	hazards	IMDG: -		IATA: -	
14.6 Special precaut	tions for user				
Tunnel restrict	ion code	: No data ava	ailable		
Further information	ation for trans-	: No data ava	ailable		

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Not applicable

SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

No

-

SECTION 16: Other information

Full text of H-Statements				
H360D	May damage the unborn child.			
H373	May cause damage to organs through prolonged or repeated			
H410	exposure. Very toxic to aquatic life with long lasting effects.			
Full text of other abbreviations				
Repr. :	Reproductive toxicity			
STOT RE :	Specific target organ toxicity - repeated exposure			
Aquatic Chronic :	Long-term (chronic) aquatic hazard			
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways				
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road				
AIIC - Australian Inventory of Industrial Chemicals				
ASTM - American Society for the Testing of Materials				
bw - Body weight				
CLP - Classification Labelling Packaging Regulation				

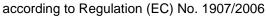
Regulation (EC) No 1272/2008

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CMR - Carcir	nogen, Mutagen or Reproductive Tox	icant
DIN - Standa	rd of the German Institute for Standa	rdisation
DSL - Domes	stic Substances List (Canada)	
ECHA - Euro	pean Chemicals Agency	
EC-Number -	European Community number	
ECx - Concer	ntration associated with x% response	
ELx - Loading	g rate associated with x% response	
EmS - Emerg	jency Schedule	
ENCS - Exist	ing and New Chemical Substances (Japan)
ErCx - Conce	entration associated with x% growth r	ate response
GHS - Globa	lly Harmonized System	
GLP - Good I	_aboratory Practice	
IARC - Intern	ational Agency for Research on Can	cer
IATA - Interna	ational Air Transport Association	
IBC - Internat micals in Bull		Equipment of Ships carrying Dangerous Che
IC50 - Half m	aximal inhibitory concentration	
ICAO - Intern	ational Civil Aviation Organization	
IECSC - Inve	ntory of Existing Chemical Substance	es in China
IMDG - Interr	national Maritime Dangerous Goods	
IMO - Interna	tional Maritime Organization	
ISHL - Indust	rial Safety and Health Law (Japan)	
ISO - Internat	tional Organisation for Standardizatio	n
KECI - Korea	Existing Chemicals Inventory	
LC50 - Letha	I Concentration to 50 % of a test pop	ulation
LD50 - Letha	I Dose to 50% of a test population (M	ledian Lethal Dose)
MARPOL - In	ternational Convention for the Preve	ntion of Pollution from Ships
n.o.s Not O	therwise Specified	
NO(A)EC - N	o Observed (Adverse) Effect Concen	tration
NO(A)EL - No	o Observed (Adverse) Effect Level	
NOELR - No	Observable Effect Loading Rate	
NZIoC - New	Zealand Inventory of Chemicals	
OECD - Orga	nization for Economic Co-operation	and Development
OPPTS - Offi	ce of Chemical Safety and Pollution	Prevention
PBT - Persist	ent, Bioaccumulative and Toxic subs	tance
	ppines Inventory of Chemicals and C ivity Relationship	hemical Substances (Q)SAR - (Quantitative)
	gulation (EC) No 1907/2006 of the Eu tration, Evaluation, Authorisation and	uropean Parliament and of the Council conce I Restriction of Chemicals





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RID - Regulat	tions concerning the International C	arriage of Dangerous Goods by Rail			
SADT - Self-Accelerating Decomposition Temperature					
SDS - Safety Data Sheet					
SVHC - substance of very high concern					
TCSI - Taiwa	TCSI - Taiwan Chemical Substance Inventory				
TECI - Thaila	TECI - Thailand Existing Chemicals Inventory				
TRGS - Technical Rule for Hazardous Substances					
TSCA - Toxic Substances Control Act (United States)					
UN - United N	lations				
vPvB - Very F	Persistent and Very Bioaccumulative	1			

Further information

Other information	:	Abbreviations: NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration LOEC = Lowest Observed Effect Concentration OEL: 60 µg/m3 (Boehringer Ingelheim)
Sources of key data used to compile the Material Safety Data Sheet	:	Information provided by the supplier
Information which has been added, deleted or revised	:	Updated section / sections: 9

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.