



CONSEIL DE L'EUROPE

Nilotinib hydrochloride monohydrate

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Revision date: 16/05/2023 Supersedes version of: 03/04/2023 Version: 2.0

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

1.1. Product identifier		
Product form Substance name Chemical name Product code	 Substance Nilotinib hydrochloride monohydrate 4-Methyl-N-[3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl]-3-[(4-pyridin-3- ylpyrimidin-2-yl)amino]benzamide hydrochloride monohydrate 201800028 	
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against	
1.2.1. Relevant identified uses Main use category Use of the substance/mixture Function or use category	 The product is intended for research, analysis and scientific education. For professional use only Laboratory chemicals 	
1.2.2. Uses advised against Restrictions on use	: Do not use : Ingestion, Inhalation, Dermal	
1.3. Details of the supplier of the safety data sheet		
European Directorate for the Quality of Medicines & Healthcare EDQM, Council of Europe 7, Allée Kastner, CS30026 F– 67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu		
1.4. Emergency telephone number		

Emergency number

: +33(0)390215608

SECTION 2: Hazards identification			
2.1. Classification of the substance or mix	ture		
Classification according to Regulation (EC) No.	1272/2008 [CLP]		
Reproductive toxicity, Category 2 Specific target organ toxicity – Repeated exposure, Hazardous to the aquatic environment – Chronic Ha Full text of H- and EUH-statements: see section 16		H361 H372 H410	(M=10)
Adverse physicochemical, human health and en Expert judgement and weight of evidence determina		5	
Labelling according to Regulation (EC) No. 1272 Hazard pictograms (CLP)	GHS08	GHS09	
Signal word (CLP) Hazard statements (CLP)	: Danger : H361 - Suspect H372 - Causes	ed of damaging damage to orga	g fertility or the unborn child. ans through prolonged or repeated exposure. e with long lasting effects.
Precautionary statements (CLP)	: P201 - Obtain s	pecial instruction	ons before use.

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- P264 Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.
 - P273 Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P314 - Get medical advice/attention if you feel unwell.

- P391 Collect spillage.
- P405 Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml Hazard pictograms (CLP)



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-Methyl-N-[3-(4-methyl-1H-imidazol-1-yl)-5- (trifluoromethyl)phenyl]-3-[(4-pyridin-3-ylpyrimidin-2- yl)amino]benzamide hydrochloride monohydrate	-	≤ 100	Repr. 2, H361 STOT RE 1, H372 Aquatic Chronic 1, H410 (M=10)

3.2. Mixtures

Not applicable

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation : Move to fresh air. Allow affected person to breathe fresh air. First-aid measures after skin contact : Wipe off as much as possible (using a clean, soft, absorbent material). Wash with plenty of water and detergent. First-aid measures after eye contact : Rinse with water while holding the eyes wide open. First-aid measures after ingestion : Rinse mouth. Specific medical surveillance. Prolonged medical observation may be indicated 4.2. Most important symptoms and effects, both acute and delayed Symptoms/effects : Delayed adverse effects possible. : Insufficient data available. Symptoms/effects after inhalation : Insufficient data available. Symptoms/effects after skin contact : Insufficient data available. Symptoms/effects after eye contact : Symptoms may include dizziness, headache, nausea and loss of coordination. Symptoms/effects after ingestion

4.3. Indication of any immediate medical attention and special treatment needed

Get medical advice/attention. If possible show this sheet, if not available show packaging or label. Active substance. Pharmaceutical.

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SECTION 5: Firefighting measu	ires	
5.1. Extinguishing media		
Suitable extinguishing media	: Extinguishing blanket.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: See Heading 2.2.	
5.3. Advice for firefighters		
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	quipment and emergency procedures	
General measures	: Avoid any direct contact with the product. Do not breathe dust/fume/gas/mist/vapours/spray.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Wear suitable protective clothing, gloves and eye or face protection.	
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
No additional information available		
6.3. Methods and material for containm	ent and cleaning up	
Methods for cleaning up	: Ensure waste is collected and contained. Clean thoroughly. Wash the non-recoverable remainder with : Sodium hypochlorite solution.	
6.4. Reference to other sections		

No additional information available

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.		
Precautions for safe handling	: Material should be handled with caution. Avoid any direct contact with the product. Material should be handled in a laboratory hood whenever possible.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures Storage conditions	Comply with applicable regulations.Store locked up.		

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Keep in a well-ventilated room. Use only in a exhaust booth with integrated air filter. High efficiency particulate air filter (HEPA filter).

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection: Safety glasses. DIN EN 166

8.2.2.2. Skin protection

Skin and body protection: Use chemically protective clothing. DIN EN 13034

Hand protection:

Chemically resistant protective gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

Dust production: dust mask with filter type P3. DIN EN 140 & 149. Liquid product : Aerosol mask. Wear breathing apparatus if exposed to vapours/dusts/aerosols

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties		
9.1. Information on basic physica	l and chemical properties	
Physical state	: Solid	
Colour	: Not available	
Appearance	: Crystalline powder.	
Odour	: Not applicable.	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
pH	: Not available	
pH solution	: Not available	

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Viscosity, kinematic Solubility	: Not applicable : Water: < 0,1 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
None under normal use. See Section 7.
10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as	defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified (Based on available data, the classification criteria are not met) Not classified (Lack of data) Not classified (Lack of data) 	
4-Methyl-N-[3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl]-3-[(4-pyridin-3-ylpyrimidin-2-yl)amino]benzamide hydrochloride monohydrate		
LD50 oral rat	> 2000 mg/kg	
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	 Not classified (Based on available data, the classification criteria are not met) Not classified (Lack of data) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Suspected of damaging fertility or the unborn child. Not classified (Lack of data) Causes damage to organs through prolonged or repeated exposure. 	

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Aspiration hazard

: Not classified (Technical impossibility to obtain the data)

11.2. Information on other hazards

No additional information available

(Green algae)) (92/69/EEC (L383) C.3)NOEC chronic fish> 0,013 mg/l (35 days, Brachydanio rend 0,0127 mg/l (21 days, Daphnia magna (0,008 mg/l (72 Hours, Pseudokirchnerie algae)) (92/69/EEC (L383) C.3)NOEC chronic algae0,008 mg/l (72 Hours, Pseudokirchnerie algae)) (92/69/EEC (L383) C.3)12.2. Persistence and degradabilityNo additional information available12.3. Bioaccumulative potentialNo additional information available12.4. Mobility in soilNo additional information available	he classification criteria are not met) effects. n-3-ylpyrimidin-2-yl)amino]benzamide (zebra-fish)) (92/69/EEC (L383) C.1) Water flea)) (92/69/EEC (L383) C.2) iella subcapitata/Selenastrum capricornutum o (zebra-fish)) (OECD 210 method)
4-Methyl-N-[3-(4-methyl-1H-imidazol-1-yl)-5-(trifluoromethyl)phenyl]-3-[(4-pyridin hydrochloride monohydrate LC50 - Fish [1] > 100 mg/l (96 Hours, Brachydanio rerice EC50 - Crustacea [1] > 100 mg/l (48 Hours, Daphnia magna (ErC50 algae > 0,016 mg/l (72 Hours, Pseudokirchnerice NOEC chronic fish > 0,013 mg/l (35 days, Brachydanio rerice NOEC chronic crustacea 0,0127 mg/l (21 days, Daphnia magna (NOEC chronic algae 0,008 mg/l (72 Hours, Pseudokirchnerice algae)) (92/69/EEC (L383) C.3) 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.4. Mobility in soil	(zebra-fish)) (92/69/EEC (L383) C.1) Water flea)) (92/69/EEC (L383) C.2) iella subcapitata/Selenastrum capricornutum o (zebra-fish)) (OECD 210 method) Water flea)) (OECD 211 method)
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12.4. Mobility in soil No additional information available	
No additional information available	
12.5. Populte of PRT and vPvP appagement	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

13.1. Waste treatment methods

Regional legislation (waste)

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA	

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ADR	IMDG	ΙΑΤΑ			
14.1. UN number or ID number					
UN 3077	UN 3077	UN 3077			
14.2. UN proper shippin	g name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.			
Transport document descr	iption				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III			
14.3. Transport hazard o	class(es)				
9	9	9			
14.4. Packing group					
III	III	III			
14.5. Environmental haz	zards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes			
No supplementary informatic	on available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)		M7
Special provisions (ADR)		274, 335, 375, 601
Limited quantities (ADR)		5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Special packing provisions (ADR)		PP12, B3
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions	:	TP33
(ADR)		
Tank code (ADR)	:	SGAV, LGBV
Vehicle for tank carriage	:	AT
Transport category (ADR)		3
Special provisions for carriage - Packages (ADR)	:	V13
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2
Special provisions for carriage - Loading, unloading		CV13
and handling (ADR)		
Hazard identification number (Kemler No.)	:	90

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Orange plates	90 3077
Tunnel restriction code (ADR)	: -
Transport by sea	
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197, A215
ERG code (IATA)	: 9L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not applicable.

POP Regulation (Persistent Organic Pollutants)

Not applicable.

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

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Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
2.1	Classification of the substance or mixture	Modified		
2.2	Label elements	Modified		
11.1	Reason for no classification	Modified		
11.1	ATE CLP (oral)	Modified		
12.1	Reason for no classification	Modified		
14	Transport information	Modified		

Full text of H- and EUH-statements:		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
H361	Suspected of damaging fertility or the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	

Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.