

Page: 1

Revision: 06/12/2014

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 10009644 Product Name: BAY-43-9006

Synonyms: 4-[4-[[[[4-chloro-3-(trifluoromethyl)phenyl]amino]carbonyl]amino]phenoxy]-N-methyl-2-

pyridinecarboxamide; Sorafenib; Nexovar®;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Toxic To Reproduction, Category 1B

Target Organ Systemic Toxicity (repeated exposure), Category 2

Aquatic Toxicity (Chronic), Category 4

Toxic To Reproduction, Effects on or via lactation

2.1.2 Classification according to Directive 1999/45/EC:

T: Toxic

Reproductive Hazard: 2

Risk Phrases: R48, R53, R60, R61, R64 For full text of R- phrases: see SECTION 15.

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word: Danger

GHS Hazard Phrases:

H360: May damage fertility or the unborn child.

H373: May cause damage to {kidneys, liver, reproductive organs, skin, bones, teeth} through prolonged or repeated exposure.

H413: May cause long lasting harmful effects to aquatic life.

H362: May cause harm to breast-fed children.

GHS Precaution Phrases:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P281: Use personal protective equipment as required.

P260: Do not breathe {dust/fume/gas/mist/vapours/spray}.

P273: Avoid release to the environment.

P263: Avoid contact during pregnancy/while nursing.

P264: Wash {hands} thoroughly after handling.



Page: 2

Revision: 06/12/2014

GHS Response Phrases:

P308+313: IF exposed or concerned: Get medical attention/advice.

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

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.2.2 Labeling according to Directive 1999/45/EC:



Reproductive Hazard: 2

Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. 2.3

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.

May cause damage to {kidneys, liver, reproductive organs, skin, bones, teeth} through

prolonged or repeated exposure.

May cause eye, skin, or respiratory system irritation. May cause long lasting harmful effects to aquatic life.

May cause harm to breast-fed children. May damage fertility or the unborn child.

To the best of our knowledge, the toxicological properties have not been thoroughly

investigated.

Section 3. Composition/Information on Ingredients

CAS#/ RTECS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
284461-73-0 NA	2-Pyridinecarboxamide, 4-[4-[[[4-chloro-3-(trifluoromethyl)phenyl]amino]carb onyl]amino]phenoxy]-N-methyl-	100.0 %	608-209-4 NA	T; Rp:2, R48-53-60-61-64 Toxic Repro. 1B: H360 TOST (RE) 2: H373 Aquatic (C) 4: H413 Toxic Lactate: H362

Section 4. First Aid Measures

4.1 Description of First AidNo data available.

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove Contact:

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before

reuse.

In Case of Eye

Contact:

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes

examined and tested by medical personnel.

Wash out mouth with water provided person is conscious. Never give anything by mouth In Case of Ingestion:

to an unconscious person. Get medical attention. Do NOT induce vomiting unless

directed to do so by medical personnel.



Page: 3

Revision: 06/12/2014

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable A solid water stream may be inefficient.

Extinguishing Media:

5.2 Flammable Properties No data available.

and Hazards:

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH

Instructions: approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions. Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment

As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or

and Emergency

respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy

Procedures: rubber gloves).

6.2 Environmental

Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material Contain spill and collect, as appropriate.

For Containment and

Transfer to a chemical waste container for disposal in accordance with local regulations.

Cleaning Up:

Section 7. Handling and Storage

7.1 Precautions To Be Avoid breathing dust/fume/gas/mist/vapours/spray.

Taken in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Keep container tightly closed.

Taken in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
284461-73-0	2-Pyridinecarboxamide, 4-[4-[[[[4-chloro-3-(trifluoromethyl)phen yl]amino]carbonyl]amino]phenoxy]-N-m ethyl-	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
284461-73-0	2-Pyridinecarboxamide, 4-[4-[[[4-chloro-3-(trifluoromethyl)phen yl]amino]carbonyl]amino]phenoxy]-N-m ethyl-	No data.	No data.	No data.



Page: 4

Revision: 06/12/2014

8.2 Exposure Control	ols
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8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to

(Ventilation etc.): control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective

Lab coat

Clothing:

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Mainten Do not take internally.

ance Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a

safety shower.

Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [] Liquid [X] Solid

Appearance and Odor: A crystalline solid

Melting Point:No data.Boiling Point:No data.Flash Pt:No data.Evaporation Rate:No data.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or

No data.

mm Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Solubility Notes: ~0.3 mg/ml in 1:2 DMSO:PBS (pH 7.2); ~20 mg/ml in DMSO & DMF;

Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: No data.

Molecular Formula & Weight: C21H16CIF3N4O3 464.8

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [] Will not occur [X]

10.4 Conditions To Avoid: No data available.10.5 Incompatibility - oxidizing agents

Materials To Avoid:

10.6 Hazardous carbon dioxide

Decomposition Or carbon monoxide

Byproducts: hydrogen chloride

hydrogen cyanide hydrogen fluoride nitrogen oxides



Page: 5

Revision: 06/12/2014

Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: BAY-43-9006 - Toxicity Data: Oral TDLO (man): 360 mg/kg/60D (intermittent); Oral

TDLO (mouse): 135 mg/kg/9D (intermittent);

Chronic Toxicological BAY-43-9006 - Investigated as a tumorigen.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented

here. See actual entry in RTECS for complete information.

BAY-43-9006 RTECS Number: US4588870

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class: UN/NA Number:

Method:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
284461-73-0	2-Pyridinecarboxamide, 4-[4-[[[4-chloro-3-(trifluoromethyl)phenyl]amino]ca rbonyl]amino]phenoxy]-N-methyl-	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
284461-73-0	2-Pyridinecarboxamide,	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA
	4-[4-[[[4-chloro-3-(trifluoromethyl)phenyl]amino]ca	PROP.65: No
	rbonyl]amino]phenoxy]-N-methyl-	



Page: 6

Revision: 06/12/2014

European Community Hazard Symbol codes:



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Reproductive Hazard: 2

European Community Risk and Safety Phrases:

R48 Danger of serious damage to health by prolonged exposure.

R53 May cause long-term adverse effects in the aquatic environment.

R60 May impair fertility.

R61 May cause harm to the unborn child.
R64 May cause harm to breastfed babies.

Regulatory Information

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and

Statement: European Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date: 06/12/2014

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.