



Page 1/4 Printing date 09/21/2018 Revision date 09/20/2018 Version 1

	Version 1
1 Identification	
Product identifier Product name: Sorafenib tosylate	
Stock number: H37285	
CAS Number: 475207-59-1	
EC number: 641-758-8	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	I
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS08 Health hazard	
Repr. 1A H360 May damage fertility or the unborn child.	
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
GHS08	
Signal word Danger Hazard statements	
H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapors/spray.	
P201 Obtain special instructions before use.	
P280 Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 IF exposed or concerned: Get medical advice/attention. P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2A - Very toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
Hazardous Materials Identification System)	
FIRE     IF Hammability = 1       REACTIVITY     Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description: 475207-59-1 Sorafenib tosylate	
Concentration: ≤100%	
Identification number(s): EC number: 641-758-8	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly.	
	ntd. on page 2) USA

### Product name: Sorafenib tosylate

(Contd. of page 1) Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Information for doctor Most important symptoms and effects, both acute and delayed May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: It this product is involved in a fire, the Carbon monoxide and carbon dioxide Hydrogen fluoride (HF) Nitrogen oxides (NOx) Hydrogen chloride (HCI) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC.1: Substance is not listed PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. **Fequinements to be that by store common storage facility:** Store away from oxidizing agents. **Further information about storage conditions:** Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **Specific end use(s)** No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Additional information: No data
Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all solled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with type N95 (USA) or P2 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if airpurifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protection of hands:
Impervious gloves

Impervious gloves Check protection of suitable gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Eye protection:** Safety glasses with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

(Contd. on page 3)

# Product name: Sorafenib tosylate

(Contd. of page 2)

				(Contd. of pag	
9 Physical and chemical properties	;				
Information on basic physical and ch General Information Appearance:					
Form: Odor: Odor threshold:	Solid Not determined Not determined.				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.				
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Not determined Not determined				
Vapor pressure: Density: Relative density Vapor density Evaporation rate	Not applicable. Not determined Not determined. Not applicable. Not applicable.				
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined Not determined.				
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information	n available.			
Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides Hydrogen chloride (HCI)	t information available.				
11 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic E LD/LC50 values that are relevant for of Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	classification: No data e irritation e irritation own. own.	· ,	·		
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: May damage fertility or the unborn child. Specific target organ system toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure. Specific target organ system toxicity - single exposure: No effects known.					
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.					
12 Ecological information					
Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large of	her relevant information availab relevant information available. rmation available.		ne svstem.		
Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	t				
13 Disposal considerations					
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure	e proper disposal.		(Contd. on pag	
				, Uš	

# Product name: Sorafenib tosylate

Uncleaned packagings:

(Contd. of page 3)

Recommendation: Disposal must be made according to official regulations.				
14 Transport information				
UN-Number DOT, ADN, IMDG, IATA	Not applicable			
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable			
Transport hazard class(es)				
DOT, ADR, ADN, IMDG, IATA Class	Not applicable			
Packing group DOT, ADR, IMDG, IATA	Not applicable			
Environmental hazards:	Not applicable.			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	Not applicable			

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms



Signal word Danger

 Signal word Danger

 Hazard statements

 H360 May damage fertility or the unborn child.

 H373 May cause damage to organs through prolonged or repeated exposure.

 Precautionary statements

 P260
 Do not breathe dust/fume/gas/mist/vapors/spray.

 P201
 Obtain special instructions before use.

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

 P308+P313 IF exposed or concerned: Get medical advice/attention.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/in

D501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Dispose of contents/container in accordance with local/regional/national/international regulations.
National regulations
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) Substance is not listed.
California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, the Substance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed.
Prop 65 - Developmental toxicity, constance is not listed

market and use must be observed. Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user."
Department issuing SDS: Global Marketing Department
Date of preparation/Revision: Print date, revision date and version number are in the header of each page.
Abbreviations and acronym:
ABR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal concentration, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
YPVE: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)
Repr. 14: Reproductive toxicity – Category 1A
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

USA