



1 Identification Product identifier

Product name: Norfloxacin

Stock number: J62652 **CAS Number:** 70458-96-7 EC number: 274-614-4 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. Inerrito Fisher Scheman C. 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

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1Flammability = 1 Flammability = 1 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: 70458-96-7 Norfloxacin Identification number(s): EC number: 274-614-4

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. 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 Most important symptoms and effects, both acute and delayed No further relevant information available. 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:

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF) 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. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Product name: Norfloxacin

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Product name: NOITIOXACIN		
Methods and material for containment Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe hau See Section 8 for information on persona See Section 13 for disposal information.	ndling	(Con
7 Handling and storage Handling Precautions for safe handling Keep co Information about protection against e Conditions for safe storage, including Storage Requirements to be met by storeroom Information about storage in one com Store away from oxidizing agents. Protect from heat. Further information about storage com Keep container tightly sealed. Refrigerate Specific end use(s) No further relevant	explosions ánd fires: No information known. any incompatibilities is and receptacles: Refrigerate mon storage facility: inditions:	
Control parameters Components with limit values that req The product does not contain any relevan Additional information: No data Exposure controls Personal protective equipment General protective equipment General protective and hygienic meas The usual precationary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clot Wash hands before breaks and at the en Maintain an ergonomically appropriate w Breathing equipment: Use suitable resp Protection of hands: Impervious gloves Check protective gloves prior to each use	f technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. uire monitoring at the workplace: In quantities of materials with critical values that have to be monitored at the workplace. ures andling chemicals should be followed. Ind feed. hing immediately. Id of work. orking environment. Dirator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Powder White to pale yellow Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	220-221 °C (428-430 °F) Not determined Not determined Not determined. Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper:	Not determined. Not determined Not determined Not determined Not determined Not determined. Not applicable. Not applicable. Slightly soluble	
Vater: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. Not applicable. Not applicable. No further relevant information available.	

10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available.

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	S) contains acute toxicity data for components in this product. es (RTECS) contains mutation data for this substance. terial is available from the EPA, IARC, NTP, OSHA or ACGIH. s (RTECS) contains reproductive data for this substance. wh. e and chronic toxicity of this substance is not fully known.

Prop 65 - Developmental toxicity, female Substance is not listed. **Prop 65 - Developmental toxicity, male** Substance is not listed.

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Product name: Norfloxacin

Information about limitation of use: For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption. Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use around the chapter of the manufacturing of the regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the

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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material 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 / last revision 11/24/2015 / Abbreviations and acronyms:

RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord europeen 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
EVECS: Europeen Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
UPS: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
HTP: National Toxicology Program (USA)
ACC: International Zafety and Health Administration (USA)
HTP: National Toxicology Program (USA)

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USA