



1 Identification
Product identifier
Product name: 4-Trifluoromethyl-2(1H)-quinolinone
Stock number: H61732 CAS Number:
25199-84-2 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 August
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Werd Lill MA 01935 2000
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)
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
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
GHS07
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects
(\mathbf{T})
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTIVITY I 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: 25199-84-2 4-Trifluoromethyl-2(1H)-quinolinone
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 immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment. (Contd. on page 2)

Sublimation temperature / start:

Flammability (solid, gaseous)

Not determined

Not determined

Product name: 4-Trifluoromethyl-2(1H)-quinolinone (Contd. of page 1) 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) 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 product to reach sewage system or any water course. Methods and material for containment and cleaning up: Ensure adequate ventilation. 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. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Ensure good ventilation at the workplace. 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: Refrigerate Information about storage in one common storage facility: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Refrigerate 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 Exposure controls Personal protective equipment General protective and hygienic measures General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. 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 PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective 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 **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: White Not determined Odor: Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined Not determined

(Contd. on page 3)

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		viewed on 01/15/2015
Product name: 4-Trifluoromethyl-2	2(1H)-quinolinone	
		(Contd. of page 2)
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/wat Viscosity:		
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under reco Thermal decomposition / condition Possibility of hazardous reactions Conditions to avoid No further relev Incompatible materials: Oxidizing agents Heat Hazardous decomposition product Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides	rant information available.	
Reproductive toxicity: No effects kr Specific target organ system toxic Specific target organ system toxic Aspiration hazard: No effects know Subacute to chronic toxicity: No ef	or classification: No data s skin irritation. serious eye irritation. known. ata on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. nown. ity - repeated exposure: No effects known. ity - single exposure: May cause respiratory irritation. n.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant Persistence and degradability No fi Bioaccumulative potential No further Mobility in soil No further relevant in Additional ecological information: General notes: Do not allow undiluted product or larg Avoid transfer into the environment. Results of PBT and vPvB assessm PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	urther relevant information available. er relevant information available. nformation available. ge quantities to reach ground water, water course or sewage system. nent	
13 Disposal considerations		
Uncleaned packagings:	al or national regulations to ensure proper disposal. e made according to official regulations.	
14 Transport information		
UN-Number	Nistematicable	
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, ĨATA	Not applicable	
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
		(Contd. on page 4)

(Contd. on page 4)

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roduct name: 4-Trifluoromethyl-2(1H)-qu	inolinone
	(Contd. of page
Transport in bulk according to Annex II of MA	ARPOL73/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
¥	
5 Regulatory information Safety, health and environmental regulations, GHS label elements The product is classified an Hazard pictograms	s/legislation specific for the substance or mixture nd labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340 IF INHALED: Remove person P405 Store locked up. P501 Dispose of contents/containe. National regulations This product is not listed in the U.S. Environmen to research and development only. This product product must not be used for commercial purpos This product is not listed on the Canadian Dome SARA Section 313 (specific toxic chemical lis California Proposition 65 Prop 65 - Chemicals known to cause cancer S Prop 65 - Developmental toxicity, female Subst Information about limitation of use: For use on Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiri	Active clothing/eyé protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict i must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. setic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). stings) Substance is not listed. s not listed. s not listed. stance is not listed. ance is not listed. ance is not listed.
information to ensure proper use and protect the conformance with this Material Safety Data Shee	supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Departe of preparation / last revision 11/24/2015, Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dange DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Cher HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C LC50: Lethal concentration, 50 percent UD50: Lethal cose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygiel OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) UARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	epartment / - nereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) mical Society) Canada) enists (USA)