



Product name: 2-Fluoro-6-(trifluoromethyl)benzoic acid         Stock number:         32890-94-1         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         Tet: 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)         Image: Sin Irrit 2         Skin Irrit 2       H315 Causes skin irritation.         Eye Irrit 2       H315 Causes skin irritation.         Eye Irrit 2       H315 Causes serious eye irritation.         Stort SE 3       H335 May cause respiratory irritation.         Hazards not otherwise classified No information known.       Label elements
CAS Number: 32890-94-1         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: 800-323-0660 Fax: 800-323-0660 Fax: 800-323-0660 Fax: 800-323-767 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)         Økon7 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,
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STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.
l abel 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. <b>Precautionary statements</b>
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 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. <b>WHMIS classification</b> D2B - Toxic material causing other toxic effects
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 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: 32890-94-1 2-Fluoro-6-(trifluoromethyl)benzoic acid
4 First-aid measures
Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek îmmediate medical advice. After skin contact
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. <b>After eye contact</b> Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing Seek medical treatment. (Contd. on page 2)

## Product name: 2-Fluoro-6-(trifluoromethyl)benzoic acid (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) 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. 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. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one 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: Not required. 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 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. 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. **Penetration time of glove material (in minutes)** Not determined **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: Color: Crystalline powder White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: 83-85 °C (181-185 °F) Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined

(Contd. on page 3)

## Product name: 2-Fluoro-6-(trifluoromethvl)benzoic acid

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		eviewed 011 04/20/2007
Product name: 2-Fluoro-6-(trifluoron	nethyl)benzoic acid	
Auto igniting	Not determined	(Contd. of page 2)
Auto igniting: Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information 10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommender Thermal decomposition / conditions to	Not determined. Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not determined. Not applicable. No	
Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride	o dangerous reactions known nt information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. prous eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - <b>- repeated exposure:</b> No effects known. - <b>- single exposure:</b> May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>nt</b>	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be me	or national regulations to ensure proper disposal. nade according to official regulations.	
<b>14 Transport information</b> Not a hazardous material for transportati	tion	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user Transport in bulk according to Appex	Not applicable.	
Transport in bulk according to Annex Transport/Additional information:	x II of MARPOL73/78 and the IBC Code Not applicable. Not dangerous according to the above specifications.	
		(Contd. on page 4)
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duct name: 2-Fluoro-6-(trifluoromet	(nyi)benzoic acid
	(Contd. of pag
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulat GHS label elements The product is classifi Hazard pictograms	tions/legislation specific for the substance or mixture ied and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P280       Wear protective gloves/g         P305+P351+P338       IF IN EYES: Rinse cautic         P305+P351+P338       IF INHALED: Remove personance         P304+P340       IF INHALED: Remove personance         P405       Store locked up.         P501       Dispose of contents/contents/contents         National regulations       This product is not listed in the U.S. Environ         This product is not listed in the U.S. Environ       Store locked up.         Source development only.       This product is not listed in the U.S. Environ         Sorder development only.       This product is not listed in the U.S. Environ         Sorder development only.       This product must not be used for commercial puters         SARA Section 313 (specific toxic chemic       California Proposition 65         Prop 65 - Developmental toxicity, substan       Prop 65 - Developmental toxicity, female         Prop 65 - Developmental toxicity, male Sufferent and prohib       Substance of Very High Concern (SVHC)         Substance of Very High Concern (SVHC)       The conditions of restrictions according         market and use must be observed.       Substance is not listed.	icer Substance is not listed. ice is not listed. Substance is not listed. ubstance is not listed.
Other information Employers should use this information only information to ensure proper use and protec conformance with this Material Safety Data Department issuing SDS: Global Marketin	as a supplement to other information gathered by them, and should make independent judgement of suitability of this of the health and safety of employees. This information is furnished without warranty, and any use of the product not i Sheet, or in combination with any other product or process, is the responsibility of the user.
Data of proparation / last rovision 11/24/2	2015 / - marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ational Air Transport Association" (IATA) Aviation Organization" (ICAO) n Chemical Society) tem (Canada)
ARC: International Agency for Research on Cancer	