

Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier
Product name: 2-(Trifluoromethyl)pyridine-4-carboxylic acid
Stock number: H63315 CAS Number:
131747-41-6 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Manufacturer/Supplier: Alfa Aesar
Alla Aesal Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660 Fax: 800-322-4757 Fax: k.tack@ulfa.com
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.
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
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
(T)
Classification system HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
FIRE Flammability = 1 REACTIVITY1 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:
131747-41-6 2-(Trifluoromethyl)pyridine-4-carboxylic acid
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.
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Information for doctor

Product name: 2-(Trifluoromethyl)pyridine-4-carboxylic acid

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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. 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 Storage 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: 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 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 aves and exin. 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 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: Solid Color: Off-white Not determined Odor: Odor threshold: Not determined. Not applicable. pH-value: Change in condition Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: 217-223 °C (423-433 °F) Not determined Not determined Not determined. Not determined Not determined

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oduct name: 2-(Trifluoromethyl)pyridine-4-carboxylic acid				
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Auto igniting:	Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.			
Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined. Not applicable.			
kinematic:	Not applicable. No further relevant information available.			
0 Stability and reactivity				
Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Oxidizing agent Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides	b be avoided : Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available.			
Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation.				
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects				
2 Ecological information				
Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furthe Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow undiluted product or large qu Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan	er relevant information available. elevant information available. nation available. uantities to reach ground water, water course or sewage system.			
3 Disposal considerations				

13 Disposal considerations

14 Transport information		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
is disposal considerations		

_14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
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.	
Transport in bulk according to Annex II of MARPOL	73/78 and the IBC Code Not applicable.	
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Product name: 2-(Trifluoromethyl)pyridine-4-carboxylic acid				
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Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	-			
15 Regulatory information				
Safety, health and environmental regulation GHS label elements The product is classified Hazard pictograms	ns/legislation specific for the substance or mixture I and labeled in accordance with 29 CFR 1910 (OSHA HCS)			
$\langle \mathbf{i} \rangle$				
GHS07				
P305+P351+P338 IF IN EYES: Rinše cautious P304+P340 IF INHALED: Remove pers P405 Store locked up. P501 Dispose of contents/contain National regulations This product is not listed in the U.S. Environme to research and development only. This produ product must not be used for commercial purp This product is not listed on the Canadian Don SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Chemicals known to cause cance Prop 65 - Developmental toxicity, substance Prop 65 - Developmental toxicity, male Sub Information about limitation of use: For use Other regulations, limitations and prohibiti Substance of Very High Concern (SVHC) ac The conditions of restrictions according to market and use must be observed. Substance is not listed.	 Interfactive clothing/eye protection/face protection. Solv with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Son to fresh air and keep comfortable for breathing. Iner in accordance with local/regional/national/international regulations. Inter in accordance of directly under the supervision of a technical Substance Inventory. Use of this product is restricted for breats of a formulation of directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. Interface Substance is not listed. Istings) Substance is not listed. Istance is not listed. Istance			
information to ensure proper use and protect to	a supplement to other information gathered by them, and should make independent judgement of suitability of this he health and safety of employees. This information is furnished without warranty, and any use of the product not in neet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing L Date of preparation / last revision 11/24/201 Abbreviations and acronyms:	Department 15 / - Ingereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)			

IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)