

Safety Data Sheet per OSHA HazCom 2012

per OSHA HazCom 2012 Pr Re	inting date 11/23/2015 eviewed on 04/15/2010
1 Identification Product identifier Product name: 4-(Trifluoromethyl)phenylhydrazinehydrochloride Stock number: H32340 CAS Number: 2923-56-0 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: 800-332-0660 Fax: 800-332-4757 Email: tech@alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours, call Carechem 24 at (866) S	128-0780
 During Horman business hours, can carechem 24 at (600) 343-6666. After Horman business hours, can carechem 24 at (600) 343-6666. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Acute Tox. 4 H302 Harmful if swallowed. 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 With the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Signal word Warning Hazard statements H305 Causes skin initiation. H315 Causes skin initiation. Proceeding on the protective gloves / protective clothing. P380 Weap rotective gloves / protective clothing. P380 WHMIS classification VHMIS classification D18 - Toxic material causing immediate and serious toxic effects D28 - Toxic material causing other toxic effects D29 - Toxic material causing immediate and serious toxic effects D29 - Toxic material causing immediate and serious toxic effects D29 - Toxic material causing immediate and serious toxic effects D29 - Toxic material causing immediate and serious toxic effects D29 - Toxic material causing immediate and serious toxic effects <t< td=""><td>nsing.</td></t<>	nsing.
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 2923-56-0 4-(Trifluoromethyl)phenylhydrazinehydrochloride 4 First-aid measures	
 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 skin contact 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.	(Contd. on page 2)

Product name: 4-(Trifluoromethyl)phenylhydrazinehydrochloride (Contd. of page 1) 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 Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride (HF) Hydrogen chloride (HCl) Possibly Hydrogen cyanide (HCN) **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: Dispose of contaminated material as waste according to section 13. 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 Recounting 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: 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing. Personal protective equipment 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: Cream Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: ≈210 °C (≈410 °F) (dec) Not determined Not determined Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined Not determined Not determined

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Product name: 4-(Trifluoromethyl)phenylhydrazinehydrochloride

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Auto igniting:	Not determined.	(Contd. of page 2)	
Danger of explosion:	Product does not present an explosion hazard.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined		
Density:	Not applicable. Not determined		
Relative density Vapor density	Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water: Partition coefficient (n-octanol/water)	Not determined		
Viscosity: dynamic:			
kinematic:	Not applicable. Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Thermal decomposition / conditions	mended storage 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.			
Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Carbon monoxide and carbon dioxide Nitrogen oxides			
Hydrogen fluoride			
Hydrogen chloride (HCl) Possibly Hydrogen cyanide (HCN)			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for o			
Skin irritation or corrosion: Causes su Eye irritation or corrosion: Causes se	sin irritation.		
Sensitization: No sensitizing effects kn	own.		
Carcinogenicity: No classification data	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know Specific target organ system toxicity	n. - repeated exposure: No effects known.		
Specific target organ system toxicity Aspiration bazard: No effects known	- repeated exposure: No effects known. - single exposure: May cause respiratory irritation.		
Subacute to chronic toxicity: No effect	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
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12 Ecological information Toxicity			
Aquatic toxicity: No further relevant ini	ormation available.		
Aquatic toxicity: No further relevant in Persistence and degradability No furth Bioaccumulative potential No further	relevant information available.		
Additional ecological information:	mation available.		
General notes: Do not allow material to be released to t	the environment without proper governmental permits.		
Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment. Results of PBT and vPvB assessmen	t		
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further releva	ant information available.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local (or national regulations to ensure proper disposal.		
Uncleaned packagings: Recommendation: Disposal must be m			
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14 Transport information Not a hazardous material for transportat	ion.		
UN-Number DOT, IMDG, IATA	None		
UN proper shipping name DOT, IMDG, IATA			
DOŤ, IMDG, IÁŤA Č Transport hazard class(es)	None		
DOT, ADR, IMDG, IATA			
Class	None		
Packing group DOT, IMDG, IATA	None		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
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Product name: 4-(Trifluoromethyl)phenylhydrazinehydr	rochloride
	(Contd. of page 3)
Transport in bulk according to Annex II of MARPOL73/78 and	the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
National regulations This product is not listed in the U.S. Environmental Protection Age to research and development only. This product must be used by o product must not be used for commercial purposes or in formulatio SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically o Other regulations.	veral minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This ons for commercial purposes. is not listed. d. qualified individuals. ACH Regulations (EC) No. 1907/2006. Substance is not listed. hex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the n for use) Substance is not listed.
information to ensure proper use and protect the health and safety conformance with this Material Safety Data Sheet, or in combination Department issuing SDS: Global Marketing Department Data of propagation (lact rovision 11/23/2015)	her information gathered by them, and should make independent judgement of suitability of this of employees. This information is furnished without warranty, and any use of the product not in on with any other product or process, is the responsibility of the user. ar chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) on" (IATA)