

# Safety Data Sheet per OSHA HazCom 2012

Keviewed 01/17/2017
1 Identification
Product identifier Product name: <b>2-Nitro-4-(trifluromethoxy)aniline</b>
Stock number: H33137
CAS Number: 2267-23-4
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. 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)
GHS06 Skull and crossbones
Acute Tox. 3 H331 Toxic if inhaled.
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GHS07
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.
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
<b>GHS label elements</b> The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS06
Signal word Danger
Hāzard statements H302+H312 Harmful if swallowed or in contact with skin.
H331 Toxic if inhaled. H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b>
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective deves/protective detring/our protection/face protection
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P381 JF 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 D1B - Toxic material causing immediate and serious toxic effects
D2B - Toxic material causing other toxic effects
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH 2 Health (acute effects) = 2 FIRE 1 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: 2267-23-4 2-Nitro-4-(trifluromethoxy)aniline
2267-23-4 2-Nitro-4-(trifluromethoxy)aniline (Contd. on page 2

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4 First-aid measures Description of first aid measures After inhalation Supply freeb air. If required, provide artificial respiration. Keep patient warm	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. <b>After skin contact</b> 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 Hydrogen fluoride (HF) Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear protective equipment. Keep unprotected persons away.	
Ensure adequate ventilation <b>Environmental precautions:</b> Do not allow material to be released to the environment without proper governmental permits. <b>Methods and material for containment and cleaning up:</b> Dispose of contaminated material as waste according to section 13.	
Ensure adequate ventilation. <b>Prevention of secondary hazards:</b> No special measures required. <b>Reference to other sections</b>	
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: Store in the dark. Protect from heat.	
Store away from oxidizing agents. <i>Further information about storage conditions:</i> <i>Keep container tightly sealed.</i> <i>Protect from exposure to light.</i>	
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	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Personal solid and contraminated elathing immediately.	
Wash hands before breaks and schult de doring miniculatiy. 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.	
Body protection: Protective work clothing.	USA USA
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9 Physical and chemical properties			
Information on basic physical and che General Information Appearance: Form: Color:			
Odor:	Not determined		
Odor threshold: pH-value:	Not determined. 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:	62-64 °C (144-147 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined		
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:	Not applicable.		
kinematic: Other information	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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Heat Light Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides			
Reproductive toxicity: No effects know, Specific target organ system toxicity - Specific target organ system toxicity - Aspiration bazard: No effects known	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA. JARC. NTP. OSHA or ACGIH.		
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large q 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>t</b>		
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local o	or national regulations to ensure proper disposal.	(Contd. on page 4)	

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#### Uncleaned packagings:

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Uncleaned packagings: Recommendation: Disposal must be made according to	official regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2811
UN proper shipping name	
DOT IMDG. IATA	Toxic solids, organic, n.o.s. (2-Nitro-4-(trifluromethoxy)aniline) TOXIC SOLID, ORGANIC, N.O.S. (2-Nitro-4-(trifluromethoxy)aniline)
Transport hazard class(es)	TOAIC SOLID, ORGANIC, N.O.S. (2-Nitro-4-(trinitromethoxy)arititine)
DOT	
× ·	
Class	6.1 Toxic substances.
Label	6.1
Class Label	6.1 (T2) Toxic substances 6.1
IMDG, IATA	
Class Label	6.1 Toxic substances. 6.1
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user Transport in bulk according to Annex II of MARPOL73	Warning: Toxic substances 3/78 and the IBC Code Not applicable
Transport In Burk according to Annex II of MARY OLIS	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2811, Toxic solids, organic, n.o.s. (2-Nitro-4-(trifluromethoxy)aniline), 6.1, III
P304+P340 IF INHALED: Remove person to fresh P405 Store locked up. P501 Dispose of contents/container in acco. National regulations This product is not listed in the U.S. Environmental Protector to research and development only. This product must not be used for commercial purposes or in the This product is not listed on the Canadian Domestic Subs SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Developmental toxicity Substance is not listed Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not listed Prop 65 - Developmental toxicity. male Substance is not Prop 65 - Developmental toxicity Prop 65 - De	ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. a air and keep comfortable for breathing. ordance with local/regional/national/international regulations. action Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. stances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed. action to the canadian for the canadian action of the constance of the constance of the constance to the constance of the constance stances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Substance is not listed. action to the constance of the cons
The conditions of restrictions according to Article 67 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Auth Chemical safety assessment: A Chemical Safety Asses 16 Other information Employers should use this information only as a supplem information to ensure proper use and protect the health a	o the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ' and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the norisation for use) Substance is not listed.
<b>Department issuing SDS:</b> Global Marketing Department <b>Date of preparation / last revision</b> 11/23/2015 / -	t (Contd. on page

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Abbreviations and acronyms: ADR: Accord européen 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 Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent US0: Lethal concentration, 50 percent VPWE very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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USA