

# Safety Data Sheet per OSHA HazCom 2012

1 Identification
Product identifier
Product name: <u>2-Fluoro-4-nitrobenzotrifluoride</u> Stock number: H64300
CAS Number:
69411-67-2 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development
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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
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.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
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. <b>Hazards not otherwise classified</b> 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
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation.
H319 Causes serious eye irritation. H335 May cause respiratory irritation.
Procentionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P388 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 D1B - Toxic material causing immediate and serious toxic effects
D2B - Toxic material causing other toxic effects
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
FIRE D Flammability = 1
REACTIVITY Physical Házard = 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: 69411-67-2 2-Fluoro-4-nitrobenzotrifluoride
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. (Contd. on page
Conta. on page

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		(Contd. of page 1)
After skin contact Immediately wash with water and soa Seek immediate medical advice.	p and rinse thoroughly.	
After eye contact Rinse opened eye After swallowing Seek medical treati	for several minutes under running water. Then consult a doctor.	
Information for doctor	cts, both acute and delayed No further relevant information available.	
Indication of any immediate medica	attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media Suitable extinguishing agents Carbo	on dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. bstance or mixture	
If this product is involved in a fire, the Carbon monoxide and carbon dioxide	following can be released:	
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 eq</b> Wear protective equipment. Keep unp	nuipment and emergency procedures	
Ensure adequate ventilation Environmental precautions: Do not	allow product to reach sewage system or any water course.	
Methods and material for containm	ent and cleaning up: and, diatomite, acid binders, universal binders, sawdust). vaste according to section 13.	
Ensure adequate ventilation.	-	
Prevention of secondary hazards: N Reference to other sections See Section 7 for information on safe	to special measures required.	
See Section 8 for information on perso See Section 13 for disposal informatio	onal protection equipment.	
7 Handling and storage		
Handling Precautions for safe handling		
Keep container tightly sealed. Store in cool, dry place in tightly close	d containers	
Ensure good ventilation at the workpla	st explosions and fires: No information known.	
Conditions for safe storage, includi Storage	•	
Requirements to be met by storero	oms and receptacles: No special requirements. ommon storage facility: Store away from oxidizing agents.	
Keep container tightly sealed.	ommon storage facility: Store away from oxidizing agents. conditions:	
Store in cool, dry conditions in well se <b>Specific end use(s)</b> No further releva	aled containers. nt information available.	
8 Exposure controls/personal pro	otection	
Additional information about design Properly operating chemical fume hoo	n of technical systems: In designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters	require monitoring at the workplace:	
The product does not contain any rele Additional information: No data	vant quantities of materials with critical values that have to be monitored at the workplace.	
Exposure controls Personal protective equipment		
General protective and hygienic me The usual precautionary measures for	r handling chemicals should be followed	
Keep away from foodstuffs, beverages Remove all soiled and contaminated of	s and feed. Slothing immediately	
Wash hands before breaks and at the Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin.	end of work.	
Maintain an ergonomically appropriate Breathing equipment: Use suitable r	e working environment. espirator when high concentrations are present.	
Recommended filter device for sho	rt term use: id gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if	air-purifving
respirators are appropriate. Only use <b>Protection of hands:</b>	equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU	<i>I</i> ).
Impervious gloves Check protective gloves prior to each The selection of suitable gloves pot o	use for their proper condition. Ily depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Eve protection: Safety glasses Body protection: Protective work clo	ny depends on the material, but also on quality. Quality will vary north manufacturer to manufacturer. thing.	
9 Physical and chemical properti		
Information on basic physical and o		
General Information Appearance: Form:	Liquid	
Color: Odor:	Liquid Colorless to pale yellow Not determined	
		(Contd. on page 3)

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Product name: 2-Fluoro-4-nitrobenzotrifluoride				
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Odor threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined			
Danger of explosion:	Not determined.			
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not determined Not determined. Not determined. Not determined.			
Water:	Not determined			
Partition coefficient (n-octanol/water): Viscosity: dynamic:	Not determined.			
kinematic: Other information	Not determined. 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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride Nitrogen oxides				
11 Toxicological information				
Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye 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. 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 known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information				
Toxicity         Aquatic toxicity: No further relevant information available.         Persistence and degradability No further relevant information available.         Bioaccumulative potential No further relevant information available.         Mobility in soil No further relevant information available.         Additional ecological information:         General notes:         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 assessment         PBT: Not applicable.         VPvB: Not applicable.         Other adverse effects No further relevant information available.				
13 Disposal considerations				
Waste treatment methods	or national regulations to ensure proper disposal.			

**Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

UN-Number DOT, IMDG, IATA

UN proper shipping name DOT

UN2810

Toxic, liquids, organic, n.o.s. (2-Fluoro-4-nitrobenzotrifluoride)

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Product name: 2-Fluoro-4-nitrobenzotrifluoride				
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IMDG, IATA	TOXIC LIQUID, ORGANIC, N.O.S. (2-Fluoro-4-nitrobenzotrifluoride)			
Transport hazard class(es)				
DOT				
100C				
Class	6.1 Toxic substances.			
Label Class	6.1 6.1 (T1) Toxic substances			
Label	6.1			
IMDG, IATA				
Class	6.1 Toxic substances.			
Label Backing group	0.1			
Packing group DOT, IMDG, IATA	111			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Toxic substances			
EMS Number:	F-A,S-Ă			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	le Not applicable.			
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN2810, Toxic, liquids, organic, n.o.s. (2-Fluoro-4-nitrobenzotrifluoride), 6.1, III			
Safety, health and environmental regulations/legislation specific for the substance or mixture 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 H302+H312+H32 Harmful if swallowed, in contact with skin or if inhaled. H305 Causes skin irritation. H315 Causes skin irritation. H316 Causes skin irritation. H317 Causes skin irritation. H318 Causes skin irritation. H319 Causes serious eye irritation. H310 Causes eye irritation eye eye eye eye eye eye eye eye eye ey				
16 Other information         Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.         Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and accommentations and accommentation with any other product or process, is the responsibility of the user.         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 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 Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)         MDR: Accord europeint of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)         MDS: Hatardous Materials Identification System (USA)         WHMINS: Hatardous Materials Identification System (Canada)				

### Product name: 2-Fluoro-4-nitrobenzotrifluoride

OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/24/2015 Reviewed on 11/11/2014

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USA