



1 Identification Product Identifies Product Identif		_0.0
Product name: 1-Ercono-3-nitro-4-(trifluoromethoxy)benzene Stock number: CASH number:		
Bits Automatics 1401:339 CASE Multiple 2522-352-35000000 costenation and devolgement Devision of the subplice of the subplic		
PDDBDD Provide Control of the safety data sheet Provide Control of the safety data sheet </td <td>Stock number: H61358</td> <td></td>	Stock number: H61358	
Design of the supplier of the safety data sheet market as Supplier: market as Suppl	95668-20-5	
Manufacture/Supplier:		
The properties and the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) 2 Hazard(s) identification 3 Hazard(s) identification 3 Hazard(s) identification 3 Hazard(s) identification 3 Hazard(s) identification 4 Hazard(s) identification	Manufacturer/Supplier:	
Ward Ha, MA 01835-0009 Free book 2014 Provide 1000 Bernegment Leader Status and Status and Environmental Department Emergency Lebephone number: During normal business hours, call Carechem 24 at (866) 928-0789. 21 Accord(s) Identification Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Free Int. 2 + 1015 Causes short initiation. Strong Status and Business hours, call Carechem 24 at (866) 928-0789. 23 March 2 Frank 2 + 1015 Causes short initiation. Strong Status and Business hours, call Carechem 24 at (866) 928-0789. 24 March 2 Frank 2 + 1015 Causes short initiation. Strong Status and Business hours, initiation. Strong Status and Business hours, initiation. Strong Status and Business hours and Information. Strong Status and Business hours and Information. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) March 1940 March 1940	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Enablished to my defection of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) Cassification of the substance or septiatory irritation. Stort SE3 H335 May cause registratory irritation. Label elements Cassification accordance by irritation. Cassification accordance by accordance with localing/onal/national/international regulations. Cassification system Cassification system Cassification accordance by irritation. Cassification syste	Ward Hill, MA 01835-8099 Tel: 800-343-0660_	
Information Department: Health, Safely and Environmental Department During normal business hours, (klonday-Friday, Bam-Tpm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. A texard (s) cleartification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) O GHSUT Soft Hit 2 H315 Causes skin initiation. Eye Init 2A H315 Causes skin initiation. Hard States And States States and the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) O GHSUT Stores and States and S	Email: tech@alfa.com	
During normal bioliness hours, (Monday-Friday, Bam-Tym EST), call (B00) 343-0680. After normal business hours, call Carechem 24 at (B66) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) W OHSOT Skin Int 2. H'315 Causes serious eye irritation. Eye Int 2. H'315 Causes serious eye irritation. Hazards hot otherwise classified hot information in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements Hazard	Information Department: Health, Safety and Environmental Department	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07 Even int 2A H315 Causes salvius seguritation. Stor 15: 23 H35 May cause respiratory initiation. Hazard pictures respiratory initiation. Hazard pictures respiratory initiation. Hazard pictures classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictures respiratory initiation. Hazard pictures respiratory initiation. Hazard pictures respiratory initiation. Hazard pictures respiratory initiation. Hazard pictures respiratory initiation. H315 Causes shin initiation. H315 Causes shin initiation. H316 Causes series respiratory initiation. H317 Causes series respiratory initiation. H319 Causes series respiratory initiation. H319 Causes series respiratory initiation. H319 Causes respiratory initiation. H319 Causes series respiratory initiation. H319 Causes respiratory initiation. H319 Causes are respiratory initiation. H310 Causes are respirato	During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
Windstruct 2 H357 Swit Init 2: H355 Gausse skin intation. Swit Init 2: H355 Key cause reserving you intation. Swit Init 2: H355 Key cause reserving you intation. Swit Init 2: H355 Key cause reserving you intation. Key cause cause reserving you intation. Swit Init 2: H355 Key cause reserving you intation. Key cause cause reserving you intation. Swit Init 2: H355 Key cause reserving you intation. Key cause cause reserving you intation. Swit Init 2: H355 Key cause reserving you intation. Hazards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Swit Init 2: H355 Key cause reserving you intation. Wind You Warning Hazards statements Hazards statements Hazard statements Hint 2: H355 Key Cause reserving the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) H325 H325 Key Cause reserving the product is classified and keep control for the product is classified in		
Skin Iriti 2 H315 Causes skin iritation. Eve Iriti 2A H319 Causes serious eve irritation. Hazards not otherwise classified to information (nown. Hazards not otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazards placements with a model of the information (nown. Hazards rot otherwise classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Weight and the information (nown. Hazards statements Weight and the information (nown. Hazards statements H315 Causes serious green (nation. H315 Causes (nation.		
Ever firit 2A H319 Causes serious ever initiation. Hazards not otherwise classified No information known. Label elements GNS label elements GNS label elements GNS uses serious ever initiation. Hazard pictograms GNS uses serious ever initiation. H335 May could break in global serious ever initiation. P204 P330 I Fi MI-M4125. Remove parson to fresh air and keep continuational frequentiations. P204 P300 I Fi MI-M4125. Remove parson to fresh air and keep continuational frequentiations. P205 D Fore locked up. P206 D Fore locked up. P206 D Fore locked up. P207 D Fore locked up. P208 P305 P305 P305 P305 P305 P305 P305 P305		
Hazards not otherwise classified No information known. Label elements GHS label elements GHS Signal word Warning Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Hazard statements Procentions ystatements Pass May cause respiratory initiation. Procention of the base in passimation in the passeass ment in the passimation in the passea	Eye Irrit. 2A H319 Causes serious eye irritation.	
Gibs faibel elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements Signal word Warning Hazard statements Histo Hast Causes skin infration. Histo Hast Cause skin infration. Histo Hast Causes skin infration. Histo Hast Cause skin infration. Hist	STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Signal word Warning Hazard statements H315 Causes services eye inflation. H315 Causes for events H315 Causes for events	GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Signal word Warning Hazard statements H315 Causes services eye inflation. H315 Causes for events H315 Causes for events	$\langle \uparrow \rangle$	
Hazard statements* H315 Causes skin initiation. H315 Causes skin initiation. H335 May cause respiration. H345 Cause respiration. H35 Cause respiration. H315 Cause respiration. H315 Cause	GHS07	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: I	Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory 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. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Image: I	(\mathbf{T})	
Health (acute effects) = 1 Flammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. vPvB: Not applicable. Somposition/information on ingredients Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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	Classification system	
Hammability = 1 Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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		
Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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	Fire 1 Flammability = 1	
PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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	Other hazards	
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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	PBT: Not applicable.	
Chemical characterization: Substances CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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		
CAS# Description: 95668-20-5 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene 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		
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	CAS# Description:	
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	4 First-aid measures	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact	After inhalation	
	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
	Immediately wash with water and soap and rinse thoroughly.	
Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
(Contd. on page 2)	(Contd. on pa	age 2) USA

Information for doctor

5 Fire-fighting measures Extinguishing media

Product name: 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene

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. Page 2/4 Printing date 11/24/2015 Reviewed on 06/30/2015

(Contd. of page 1)

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) Hydrogen bromide (HBr) 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. 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: Protect from heat. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. 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 General protective and nyglenic 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. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable 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. 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: iquid Pale yellow Not determined Color: Odor: Odor threshold: Not determined pH-value: Not determined Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined (Contd. on page 3)

Product name: 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene

Page 3/4 Printing date 11/24/2015 Reviewed on 06/30/2015

roduct name: 1-Bromo-3-nitro-4-(tri		ved on 06/30/2015		
	muorometnoxyjsenzene	(Contd. of page 2)		
Sublimation temperature / start:	Not determined			
Elash point	> 110 °C (> 230 °F)			
Flammability (solid, gaseous) Ignition temperature:	Not determined.			
Ignition temperature: Decomposition temperature:	Not determined Not determined			
Auto igniting:	Not determined.			
Danger of explosion:	Not determined.			
Explosion limits:	Nat Jate washood			
Lower: Upper:	Not determined Not determined			
Vapor pressure:	Not determined			
Density: Polotivo donaity	Not determined Not determined.			
Relative density Vapor density	Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with Water:	Not determined			
Partition coefficient (n-octanol/water):				
Viscosity:				
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
Stability and reactivity				
Reactivity No information known.				
Chemical stability Stable under recomn	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.			
Thermal decomposition / conditions to Possibility of hazardous reactions Rea	b be avoided: Decomposition will not occur if used and stored according to specifications.			
Conditions to avoid No further relevant	acts with strong oxiaizing agents information available			
Incompatible materials:				
Oxidizing agents				
Heat Hazardous decomposition products:				
Carbon monoxide and carbon dioxide				
Hydrogen fluoride				
Nitrogen oxides Hydrogen bromide				
Toxicological information				
Reproductive toxicity: No effects knowl Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • repeated exposure: No effects known. • single exposure: May cause respiratory irritation.			
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 inform	nation available.			
Additional ecological information:				
General notes: Do not allow undiluted product or large of	uantities 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 releval	nt information available.			
Diseased as a side as tiseas				
3 Disposal considerations				
Waste treatment methods	r national regulations to ansure proper dispose			
Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:				
Recommendation: Disposal must be ma	ade according to official regulations.			
Transport information				
UN-Number	Natanniaahla			
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			
0,000	Νοι αρμισασιο	(Contd. on page 4		
		USA -		

Product name: 1-Bromo-3-nitro-4-(trifluoromethoxy)benzene

	(Contd. of page 3)
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 MARPOL73/78	and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marine Ballutent (DOT):	
Marine Pollutant (DOT): UN "Model Regulation":	No
15 Regulatory information	
Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in 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/vapou P280 Wear protective gloves/protective clothing/	
P305+P351+P338 IF IN EYES: Rinše cautiously with water to P304+P340 IE INIHALED: Remove person to fresh air a	reye protection/race protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing.
P405 Store locked up.	
National regulations	ce with local/regional/national/international regulations.
This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used	Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted divergence of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in formu	by or directly under the supervision of a technically qualified individual as defined by TSCA. This ulations for commercial purposes. ces List (DSL) or the Canadian Non-Domestic Substances List (NDSL).
SARA Section 313 (specific toxic chemical listings) Substant California Proposition 65	ance is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is	not listed
Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity Substance is not listed.	liated
Prop 65 - Developmental toxicity, female Substance is not. Prop 65 - Developmental toxicity, male Substance is not lis Information about limitation of use: For use only by technic	isied. ited.
Information about limitation of use: For use only by technic Other regulations, limitations and prohibitive regulations	cally qualified individuals.
Substance of Very High Concern (SVHC) according to the	e REACH Regulations (EC) No. 1907/2006. Substance is not listed. I Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed.	Annex X vii of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorise	ation for use) Substance is not listed
Chemical safety assessment: A Chemical Safety Assessment	and has not been carried out.
16 Other information	
Employers should use this information only as a supplement t	to other information gathered by them, and should make independent judgement of suitability of this afety 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 comb	ination 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 / -	
ADR: Accord européen sur le transport des marchandises dangereuses par Route DOT: US Department of Transportation	e (European Agreement concerning the International Carriage of Dangerous Goods by Road)
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent	
vPvB: very Persistent and very Bioaccumulative ACGH: American Conference of Governmental Industrial Hydienists (USA)	
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	e (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	

EPA: Environmental Protection Agency (USA)

USA