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	Version 1
1 Identification	
Product identifier Product name: 3-Aminobenzonitrile	
Stock number: A13995	
CAS Number: 2237-30-1	
EC number: 218-800-5	
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	
Engency 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 Sens. 1 H317 May cause an allergic skin reaction. 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	
\wedge	
GHS07	
Signal word Warning Hazard statements Hazard statements	
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. H317 May cause an allergic skin reaction.	
Precautionary statements P262 Do not get in eyes, on skin, or on clothing.	
P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves / protective clothing. P309 IF exposed or if you feel unwell: P310 Immediately call a POISON CENTER/doctor.	
WHIWIS 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 Image: Provide the state of th	
REACTIVITY 1 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: 2237-30-1 3-Aminobenzonitrile	
Concentration: ≤100% Identification number(s):	
EC number: 218-800-5	
4 First-aid measures	
Description of first aid measures After inhalation	
After initiation 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.	
(Cont	d. on page 2) USA

Product name: 3-Aminobenzonitrile	
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 Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. May cause an allergic skin reaction. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 cyanide (HCN) 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 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 personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed. PAC-3: Substance is not listed.	
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. 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 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 of work. Avoid contact with the eves and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to del purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Cineck protective gloves prior to each use for their proper condition. 	termine if air-
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 Even protoctions. Softwire gloacea with old a chielde (NOSE/URS) or EN 166/EU)	

Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

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9 Physical and chemical propertie	S	
Information on basic physical and chemical properties General Information		
Appearance: Form:	Crystalline powder	
Odor: Odor threshold:	Almond-likė Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melfing point/Melfing range: Boiling point/Boiling range: Sublimation temperature / start:	51-53 °C (124-127 °F) 290 °C (554 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature:	>110 °C (>230 °F) Not determined. Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density:	Not determined Not determined.	
Relative density Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water	Slightly soluble r): Not determined.	
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide	·	
1 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful in contact with skin. Harmful is evalowed. Danger through skin absorption. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: May cause irritation Germ cell mutagenicity: No effects known. Garcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: 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 in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable.	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Other adverse effects No further relev	/ant information available.	

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13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regul Uncleaned packagings: Recommendation: Disposal must be made according t		
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3439	
UN proper shipping name DOT ADR IMDG, IATA	Nitriles, solid, toxic, n.o.s. (3-Aminobenzonitrile) 3439 Nitriles, solid, toxic, n.o.s. (3-Aminobenzonitrile) NITRILES, SOLID, TOXIC, N.O.S. (3-Aminobenzonitrile)	
Transport hazard class(es) DOT		
Class Label ADR	6.1 Toxic substances 6.1	
Class Label IMDG, IATA	6.1 (T2) Toxic substances 6.1	
Class Label	6.1 Toxic substances 6.1	
Packing group DOT, ADR, IMDG, IATA	III	
Environmental hazards: Marine pollutant (IMDG):	No	
Special precautions for user EMS Number: Stowage Category Segregation Code	Warning: Toxic substances F-A,S-A A SG35 Stow "separated from" acids.	
Transport in bulk according to Annex II of MARPOL		
Transport/Additional information: DOT		
Quantity limitations	On passenger aircraft/rail: 100 kg On cargo aircraft only: 200 kg	
Marine Pollutant (DOT): IMDG Limited quantities (LQ) Excepted quantities (EQ)	No 5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g	
UN "Model Regulation":	UN 3439 NITRILES, SOLID, TOXIC, N.O.S. (3-AMINOBENZONITRILE), 6.1, III	
15 Regulatory information 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 H302HH312HH32 Harmful if swallowed, in contact with	a skin or if inhaled	

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 National regulations

 This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

 This product is not listed on the Canadian Domestic Substance List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Developmental toxicity Substance is not listed.

 Prop 65 - Developmental toxicity Substance is not listed.

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(Contd. on page 5)

(Contd. of page 4)

USA

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 qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page. Abbreviations and acronyms: TD: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO: TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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 Association IATA: International Air Transport Association IATA: International Air Transport Association IATA: International Air Transport Association IATA: International Civil String Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Workplace Hazardous Materials Information System (Canada) Libé: organise Hazardous Materials Information System (Canada) Libé: Organise Hazardous Materials Information System (Canada) Libé: Verifylace Hazardous Materials Information System (Canada) Libé: Verifylace Hazardous Materials Information System (Sust OSHE: Very Persistent, Biopconumlative and Toxic SYHC: Substances of Very High Concern VPVB: very Persistent and very Bioaccumulative ACGIH: American Charleneo ed Governmentel Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) Area: International Agency for Research on Cancer EFA: Environmental Protection Agency (USA) Acute Tox. 4: Acute toxicity – Category 4 Skin sens. 1: Skin sensitisation – Category 1