

1 Identification Product identifier Product name: 2-Aminophenylacetonitrile Stock number: H66243 **CAS Number:** 2973-50-4 EC number: 221-015-0 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. Inerrito Fisher Scheman C. 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) ! 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. Eve Irrit. 2A H319 Causes serious eve 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 ! GHS07 Signal word Warning Hazard statements H302+H312+H322 Harmful if swallowed, in contact with skin or if inhaled. H315 Causes skin irritation. Causes serious eye irritation. H319 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 Disperse of contents/container in accordance with local/ragional/national/international ragulations. 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 Ţ 1 Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 2 

 Image: Instant (double of local)

 Image: Im Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 2973-50-4 2-Aminophenylacetonitrile

2973-50-4 2-Aminophenylaceto Identification number(s): EC number: 221-015-0

	(Contd. of pa
First-aid measures	1 - 5.1141 01 pu
Description of first aid measures Ster inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. Ster skin contact mmediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. Ster eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
fter swallowing Seek medical treatment. formation for doctor lost important symptoms and effects, both acute and delayed No further relevant information available. Idication of any immediate medical attention and special treatment needed No further relevant information available.	
ire-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 this product is involved in a fire, the following can be released: arbon monoxide and carbon dioxide lydrogen cyanide (HCN) litrogen oxides (NOx) Advice for firefighters rotective equipment: Vear self-contained respirator. Vear fully protective impervious suit.	
ccidental release measures ersonal precautions, protective equipment and emergency procedures /ear protective equipment. Keep unprotected persons away. nsure adequate ventilation purported precautions: Do not allow product to reach sowage system or any water course	
Invironmental precautions: Do not allow product to reach sewage system or any water course. Invironmental precautions: Do not allow product to reach sewage system or any water course. Invironmental precaution. Inviron adequate ventilation. Inverse adequate ventilation. Inve	
landling and storage landling recautions for safe handling ceep container tightly sealed.	
tore in cool, dry place in tightly closed containers. nsure good ventilation at the workplace. <b>iformation about protection against explosions and fires:</b> No information known.	
Conditions for safe storage, including any incompatibilities torage 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: (eep container tightly sealed. Store in cool, dry conditions in well sealed containers.	
pecific end use(s) No further relevant information available.	
xposure controls/personal protection dditional information about design of technical systems: roperly 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. Aditional information: No data	
xposure controls ersonal protective equipment eneral protective and hygienic measures he usual precautionary measures for handling chemicals should be followed. eep away from foodstuffs, beverages and feed. emove all soiled and contaminated clothing immediately. /ash hands before breaks and at the end of work. void contact with the eyes and skin. aintain an erconomically appropriate working environment.	
laintain an ergonomically appropriate working environment. reathing equipment: Use suitable respirator when high concentrations are present. ecommended filter device for short term use: lse a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d urifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. rotection of hands: npervious gloves	etermine if air-
heck protective gloves prior to each use for their proper condition. he selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. laterial of gloves Nitrile rubber, NBR enetration time of glove material (in minutes) 480 love thickness 0.11 mm ye protection: Safety glasses	
ody protection: Protective work clothing.	(

## Product name: 2-Aminophenylacetonitrile

Page 3/5 Printing date 11/23/2015 Reviewed on 10/29/2014

(Contd. of page 2) 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Powder Off-white 'Form: Color: Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition Melting point/Melting range: 69-72 °C (156-162 °F) Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Not determined Not determined Not determined Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Lower: Not determined. Not determined Upper: Not determined Vapor pressure: Density: Relative density Not applicable. Not determined Not determined. Vapor density Not applicable. Evaporation rate Solubility in / Miscibility with Not applicable. Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not applicable. Not applicable. kinematic: Other information 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 cyanide Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eve irritation of convosion: Causes serious eve irritation. Eve irritation or corrosion: Causes serious eve irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated 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 Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:

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

## Product name: 2-Aminophenylacetonitrile

	(Contd. of page 3)	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3439	
UN proper shipping name DOT WDC 14TA	Nitriles, solid, toxic, n.o.s. (2-Aminophenylacetonitrile) NITRILES, SOLID, TOXIC, N.O.S. (2-Aminophenylacetonitrile)	
IMDG, IATA Transport hazard class(es)	NTRILES, SOLID, TOXIC, N.O.S. (2-Aminophenylacetonitrile)	
DOT		
$\checkmark$		
Class Label	6.1 Toxic substances. 6.1	
Class Label	6.1 (T2) Toxic substances 6.1	
ĪMDĞ, IATA		
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA	<i>III</i>	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Toxic substances F-A.S-A	
EMS Number: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	· · · · · · · · · · · · · · · · · · ·	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	No UN3439, Nitriles, solid, toxic, n.o.s. (2-Aminophenylacetonitrile), 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 With the substance of the substance or mixture or substance or mixture of the substance or mixture or substance or mixture or mixture or mixture or substance or mixture or m		
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) S Chemical safety assessment: A Chemical Safety Assessment has not been	ubstance is not listed. carried out.	
<ul> <li>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.     </li> <li>Department issuing SDS: Global Marketing Department         Date of preparation / last revision 11/23/2015 / -</li></ul>		

## Product name: 2-Aminophenylacetonitrile

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPVB: very Persistent and very Bioaccumulative ACGH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA