

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: 2-Amino-3-nitrophenol Stock number: H27472 CAS Number: 603-85-0 EC number: 210-060-1 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. 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 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 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P280 Wear protective gloves / protective clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. WHMIS classification D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 2Flammability = 1 Physical Hazard = 1 Results of PBT and vPvB assessment PBT. Not applicable. Other hazards vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 603-85-0 2-Amino-3-nitrophenol Identification number(s): EC number: 210-060-1 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 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.

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Product name: 2-Amino-3-nitropher	nol	
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After swallowing Seek medical treatme Information for doctor	ent.	(
Most important symptoms and effect	<b>ts, both acute and delayed</b> No further relevant information available. <b>attention and special treatment needed</b> No further relevant information available.	
indication of any immediate medical	attention and special treatment needed to further relevant information available.	
5 Fire-fighting measures		
Extinguishing media Suitable extinguishing agents Carbor	n dioxide. extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Special hazards arising from the sub	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture ollowing can be released:	
If this product is involved in a fire, the for Carbon monoxide and carbon dioxide 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. Keep unpro	uipment and emergency procedures	
Ensure adequate ventilation		
Methods and material for containment	llow product to reach sewage system or any water course. nt and cleaning up:	
Dispose of contaminated material as wa Ensure adequate ventilation.	aste according to section 13.	
Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections	o special measures required.	
See Section 7 for information on safe has See Section 8 for information on persor	andling	
See Section 13 for disposal information	l.	
7 Handling and storage		
Handling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed Ensure good ventilation at the workplac		
	t explosions and fires: No information known.	
Conditions for safe storage, includin Storage		
Requirements to be met by storeroor Information about storage in one con	ms and receptacles: No special requirements. mmon storage facility: Store away from oxidizing agents.	
Further information about storage co Keep container tightly sealed	onditions:	
Store in cool, dry conditions in well seal Specific end use(s) No further relevan	led containers.	
• • • • •		
8 Exposure controls/personal prot		
Additional information about design Properly operating chemical fume hood	I designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that re	quire monitoring at the workplace.	
The product does not contain any releva	ant 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 mea		
The usual precautionary measures for h	handling chemicals should be followed.	
The usual precautionary measures for h Keep away from foodstuffs, beverages Remove all soiled and contaminated clo Wash hands before breaks and at the e	and feed. othing immediately.	
Avoid contact with the eves and skin.		
Maintain an ergonomically appropriate Breathing equipment: Use suitable res	working environment. spirator when high concentrations are present.	
Recommended filter device for short	t <b>term use:</b> r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to dete	ermine if air-
purifying respirators are appropriate. O Protection of hands:	Inly use equipment tested and approved under appropriate government standards.	
Impervious gloves		
The selection of suitable gloves not only	ise for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Penetration time of alove material (in	n minutes) 480	
Glove thickness 0.11 mm Eye protection: Safety glasses		
Body protection: Protective work cloth	ning.	
9 Physical and chemical properties		
Information on basic physical and ch General Information	hemical properties	
Appearance: Form:		
Color:	Crystalline powder Red-orange	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
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## Product name: 2-Amino-3-nitrophenol

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roduct name: 2-Amino-3-nitrophen	ol	
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Change in condition		
Melting point/Melting range:	ca 212 °C (ca 414 °F)	
Boiling point/Boiling range:	Not determined	
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor prossuro:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water):	Not determined	
Partition coefficient (n-octanol/water): Viscosity:	Not determined.	
dynamic:	Not applicable.	
kinematic: Other information	Not applicable. No further relevant information available.	
Other mormation		
) Stability and reactivity		
Reactivity No information known.		l
Chemical stability Stable under recomr	nended storage conditions.	
Thermal decomposition / conditions t	nended storage conditions. <b>o be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Rea Conditions to avoid No further relevant	acts with strong oxidizing agents	
Incompatible materials: Oxidizing agen		l
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
-		
1 Toxicological information		
Information on toxicological effects		
Acute toxicity: Harmful if swallowed.	Jan-Mandala	
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk		
Eve irritation or corrosion: Causes ser	rious eve irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	own.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
<b>Reproductive toxicity:</b> No effects know	ín.	l
Specific target organ system toxicity - Specific target organ system toxicity	<ul> <li>repeated exposure: No effects known.</li> <li>single exposure: May cause respiratory irritation.</li> </ul>	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effect	ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
	TO THE DEST OF OUR KNOWIE USE ADDREAD AND OTHER TOXICITY OF THIS SUBSTAILS IS NOT THEY RESERVE	
? Ecological information		
Toxicity		
Aquatic toxicity: No further relevant info Persistence and degradability No furth	ormation available.	
Bioaccumulative potential No further re	ler relevant information available.	
Mobility in soil No further relevant inform	mation available.	
Additiónal ecological information: General notes:		
Do not allow undiluted product or large a	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 releva	Int information available.	
Disposal considerations		
B Disposal considerations		
Waste treatment methods Recommendation Consult state, local o	or national regulations to ensure proper disposal.	
Uncleaned packagings:		
Recommendation: Disposal must be ma	ade according to official regulations.	
Transport information		
UN-Number		
DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group	Nisterritestis	
DOT, IMĎG, IÀTA	Not applicable	(Oracid on page 4
		(Contd. on page 4)

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Product name: 2-Amino-3-nitrophenol		
	(Contd. of page 3)	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL	.73/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
15 Regulatory information Safety, health and environmental regulations/legisla GHS label elements The product is classified and labe Hazard pictograms	ation specific for the substance or mixture Hed in accordance with 29 CFR 1910 (OSHA HCS)	
National regulations This product is not listed in the U.S. Environmental Prot to research and development only. This product must b product must not be used for commercial purposes or in This product is not listed on the Canadian Domestic Su SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Chemicals known to cause cancer Substan Prop 65 - Developmental toxicity, female Substance is Information about limitation of use: For use only by t Other regulations, limitations and prohibitive regula Substance of Very High Concern (SVHC) according The conditions of restrictions according to Article 6 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Au Chemical safety assessment: A Chemical Safety Ass	nce is not listed. sted. is not listed. s not listed. technically qualified individuals. ations to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
conformance with this Material Safety Data Sheet, or in Department issuing SDS: Global Marketing Departme	ement to other information gathered by them, and should make independent judgement of suitability of this a and safety of employees. This information is furnished without warranty, and any use of the product not in a combination with any other product or process, is the responsibility of the user. ent	
Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses p DOT: US Department of Transportation EINECCS: European Inventory of Existing Commercial Chemical Substance CAS: Chemical Abstracts Service (division of the American Chemical Soc HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal conference of Governmental Houstrial 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)	par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ces ciety) SA	