



1 Identification Product identifier Product name: 4-Nitrobenzamide Stock number: A11536, L07514 CAS Number: 619-80-7 EC number: 210-613-7 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 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. P50' 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 Т Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 1 Health (acute effects) = 11 RE I Flammàbility = 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: 619-80-7 4-Nitrobenzamide Identification number(s): EC number: 210-613-7 4 First-aid measures

Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.

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Seek immediate medical advice. After skin contact Immediatelv wash with water and soap a	nd rinse thoroughly.	(Contd. of page 1)
Immediately wash with water and soap a Seek immediate medical advice. After eye contact Rinse opened eye for After swallowing Seek medical treatmen Information for doctor	several minutes under running water. Then consult a doctor. nt.	
Indication of any immediate medical a	, both acute and delayed No further relevant information available. ttention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Use carl Special hazards arising from the subs: If this product is involved in a fire, the foll Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	bon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed tance or mixture lowing can be released:	l containers.
6 Accidental release measures Personal precautions, protective equip Wear protective equipment. Keep unprote Ensure adequate ventilation Environmental precautions: Do not allo Methods and material for containment Dispose of contaminated material as was Ensure adequate ventilation. Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe har See Section 8 for information on persona See Section 13 for disposal information.	ected persons away. The analysis of the environment without proper governmental permits. The and cleaning up: Ste according to section 13. Special measures required.	
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities s and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. Iditions: d containers.	
8 Exposure controls/personal prote		
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: Not required. 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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves 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.		
Body protection: Protective work clothing.		
9 Physical and chemical properties Information on basic physical and che		
General Information Appearance:		
Form: Color:	Powder Off-white	
	Not determined Not determined.	
•	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	199-201 °C (390-394 °F) Not determined	(Contd on page 3)

Product name: A-Nitrobonzamide

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Product name: 4-Nitrobenzamide	Product name: 4-Nitrobenzamide		
		(Contd. of page 2)	
Sublimation temperature / start:	Not determined		
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.		
Ignition temperature: Decomposition temperature:	Not determined Not determined		
Auto igniting:	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: Relative density	Not determined Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water):	Not determined): Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recomm	mended storage conditions.		
Thermal decomposition / conditions to Possibility of hazardous reactions No	to be avoided: Decomposition will not occur if used and stored according to specifications.		
Conditions to avoid No further relevant	nt information available.		
Incompatible materials: Oxidizing agen Hazardous decomposition products:	nts		
Carbon monoxide and carbon dioxide Nitrogen oxides			
•		i	
11 Toxicological information Information on toxicological effects			
Acute toxicity: Harmful if swallowed.			
LD/LC50 values that are relevant for c Oral LD50 476 mg/kg (rat)	classification:		
Skin irritation or corrosion: Causes sk			
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno	erious eve irritation.		
Germ cell mutagenicity: No effects kno	own. own. o on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Reproductive toxicity: No effects know	NN.		
Specific target orgań system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known.			
Aspiration hazard: No effects known. Subacute to chronic toxicity:			
The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:			
Behavioral - somnolence (general depressed activity). Behavioral - muscle weakness.			
Lungs, Thorax, or Respiration - dyspnea. Additional toxicological information:	a. 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 info Persistence and degradability No furth	formation available.		
Bioaccumulative potential No further relevant information available.			
Mobility in soil No further relevant inform Additional ecological information:	mation available.		
General notes: Do not allow material to be released to the	the environment without proper governmental permits.		
Do not allow undiluted product or large q Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.		
Results of PBT and vPvB assessment	ıt		
PBT: Not applicable. vPvB: Not applicable.	PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.		
13 Disposal considerations			
Waste treatment methods	or national regulations to ensure proper disposal.		
Uncleaned packagings:			
Recommendation: Disposal must be ma			
14 Transport information Not a hazardous material for transportation.			
UN-Number			
DOT, IMDG, IATA UN proper shipping name	None		
UN proper shipping name DOT, IMDG, IATA	None	(Q) = (Q)	
		(Contd. on page 4)	

	Reviewed on 10/14/2003
roduct name: 4-Nitrobenzamide	
	(Contd. of page 3
Transport hazard class(es) DOT, ADR, IMDG, IATA	
DOT, ADR, IMDG, IATA Class	None
Packing group DOT, IMDG, IATA	
DOT, IMDG, IATA Environmental hazards:	None Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
5 Regulatory information	
Safety, health and environmental regulations/legislation specific for the su GHS label elements The product is classified and labeled in accordance with 2 Hazard pictograms	ubstance or mixture 29 CFR 1910 (OSHA HCS)
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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	
P261 Avoid breathing dust/fume/gas/mist/vapours/sprav.	ce protection
P280 Wear protective gloves/protective clothing/eye protection/fac P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes P304+P340 IF INHALED: Remove person to fresh air and keep comforta	. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	с. С
P501 Dispose of contents/container in accordance with local/region National regulations	onal/national/international regulations.
All components of this product are listed in the U.S. Environmental Protection A	Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substance SARA Section 313 (specific toxic chemical listings) Substance is not listed.	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.	
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed.	
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Information about limitation of use: For use only by technically qualified indiv Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regular The conditions of a contribution of a conditions of the Amount VII of the Conditions of the concern (SVHC) according to the REACH Regular Conditions of the concern (SVHC) according to the REACH Regular	contraction and the second
Other regulations, limitations and prohibitive regulations	
Substance of Very High Concern (SVHC) according to the REACH Regular The conditions of restrictions according to Article 67 and Annex XVII of the	tions (EC) No. 1907/2006. Substance is not listed. he Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
market and use must be observed.	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Su	ibstance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been of	xarried out.
Other information	
Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employee	on gathered by them, and should make independent judgement of suitability of this es. This information is furnished without warranty, and any use of the product not in ther product or process, is the responsibility of the user.
	ther product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -	
Abbreviations and acronyms:	
INDO: International Marine Color Database Cools Do Database Cools Do Database Cools Do Database Cools Database	
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 dose, 50 percent	
Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transportation 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 US9: very Persistent and very Bioaccumulative VPUB: very Persistent and very Bioaccumulative ACGIH: 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)	
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	