



1 Identification Product identifier Product name: 2-Hydroxybenzonitrile Stock number: A13606, L13451 CAS Number: 611-20-1 EC number: 210-259-3 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: 611-20-1 2-Hydroxybenzonitrile Identification number(s): EC number: 210-259-3 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-Hydroxybenzonitri	ile	
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After swallowing Seek medical treatme	ent.	(Contd. of page 1)
Information for doctor Most important symptoms and effect	ts, both acute and delayed No further relevant information available.	
Indication of any immediate medical	attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures		
Extinguishing media		
Suitable extinguishing agents Carbon	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Special hazards arising from the sub- If this product is involved in a fire, the fo	Stance of mixture blowing can be released:	
Carbo'n 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 equ. Wear protective equipment. Keep unpro		
Ensure adequate ventilation	llow product to reach sewage system or any water course.	
Methods and material for containment	nt and cleaning up:	
Dispose of contaminated material as wa Ensure adequate ventilation.		
Prevention of secondary hazards: No Reference to other sections	o special measures required.	
See Section 7 for information on safe ha	andling	
See Section 8 for information on person See Section 13 for disposal information.		
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 workplace	containers.	
	e. • explosions and fires: No information known.	
Conditions for safe storage, including	g any incompatibilities	
Storage Requirements to be met by storeroon	ms and receptacles: No special requirements.	
Information about storage in one con Further information about storage co	nmon storage facility: Store away from oxidizing agents.	
Keep container tightly sealed. Store in cool, dry conditions in well seal		
Specific end use(s) No further relevant	t information available.	
8 Exposure controls/personal prote	rection	
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 red	quire monitoring at the workplace:	
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 for h The usual precautionary measures for h Keep away from foodstuffs, beverages a	isures handling chemicals should be followed.	
Remove all soiled and contaminated clo	othing immediately.	
Wash hands before breaks and at the e Avoid contact with the eyes and skin.	and of work.	
Maintain an ergonomically appropriate v	working environment. spirator when high concentrations are present.	
Recommended filter device for short	term use:	
Use a respirator with type N95 (USA) or purifying respirators are appropriate O	r PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to det only use equipment tested and approved under appropriate government standards.	ermine if air-
Protection of hands: Impervious gloves		
Check protective gloves prior to each us	se for their proper condition.	
Eye protection: Safety glasses	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
Body protection: Protective work cloth	ning.	
9 Physical and chemical properties		
Information on basic physical and ch General Information	nemical properties	
Appearance:	Crystalling pourder	
Form: Color:	Crystalline powder White to brown	
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range: Boiling point/Boiling range:	92-95 °C (198-203 °F) 149 °C (300 °F) (14mm)	
		(Contd. on page 3)

Product name: 2-Hvdroxybenzonitrile

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Product name: 2-Hydroxybenzonitr	rile	
		(Contd. of page 2)
Sublimation temperature / start:	Not determined	
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable. Not determined	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water	Not determined r): Not determined.	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen cyanide Nitrogen oxides	s to be avoided : Decomposition will not occur if used and stored according to specifications. Reacts with strong oxidizing agents nt information available. ents	
Reproductive toxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe	skin irritation. erious eye irritation. nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No further Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relev	rther relevant information available. relevant information available. ormation available. e quantities to reach ground water, water course or sewage system. nt	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be r	l or national regulations to ensure proper disposal. made according to official regulations.	
14 Transport information		
UN-Number		
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	
Packing group DOT, IMDG, IATA	Natassia	
Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Not applicable.	
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duct name: 2-Hydroxybenzonitrile	
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	
DOT Marina Ballutant (DOT):	
Marine Pollutant (DOT): No No	
UN "Model Regulation": -	_
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 H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H325 May cause respiratory irritation. H326 May cause respiratory irritation. H326 May cause respiratory irritation. H327 Mational regulations H1 components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. H1 components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). 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, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006, Substance is not listed. Substance is not listed. Substance is not listed. Substance is not listed. Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	the
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 thi 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 conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	s `in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation CINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) VHMIS: Workplace Hazardous Materials Information System (Canada) C-50: Lethal dose, 50 percent PVS: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) SSH4: Occupational Safety and Health Administration (USA) YTP: National Toxicology Program (USA) ACC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	USA -