

Safety Data Sheet per OSHA HazCom 2012



Product name: Ethyl 3,4-diaminobenzoate (Contd. of page 1) Information for doctor Most important symptoms and effects, 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 Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. 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 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: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. 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 containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities 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. **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: 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 soiled 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. Eve protection: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid Color: Off-white Odor: Odorless Odor threshold: Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 108-112 °C (226-234 °F) Not determined Sublimation temperature / start: Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not applicable Not determined Not determined Not determined Auto igniting: Not determined (Contd. on page 3)

Product name: Ethyl 3,4-diaminobenzoate

Product name: Ethyl 3,4-diaminober	izoate	
		(Contd. of page 2)
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	
Relative density Vapor density	Not determined. Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Not determined	
Partition coefficient (n-octanol/water):		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.	manded stars as additions	
Thermal decomposition / conditions t	nended storage conditions. o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of nazardous reactions NO	dangerous reactions known	
Conditions to avoid No further relevant Incompatible materials: Oxidizing ager	i information available. Its	
Hazardous decomposition products:		
Carbon monoxide and carbon dioxide Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known		
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes sk	lassification: No data	
Eye irritation or corrosion: Causes ser	rious eye irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	DWN.	
Carcinogenicity: No classification data	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive foxicity: No effects know Specific target organ system toxicity	n. - 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 effect	ts 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 info	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further ro	ner relevant information available. elevant information available	
Mobility in soil No further relevant infor	mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	he environment without proper governmental permits.	
Avoid transfer into the environment.	quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	t	
PBT: Not applicable. vPvB: Not applicable.		
Other adverse effects No further releva	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local o Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m	ade according to official regulations.	
14 Transport information		
Not a hazardous material for transportati	ion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
· · · ·	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
•		(Contd. on page 4
		USA

roduct name: Ethyl 3,4-diaminobenzoate (Contd. of page		
DOT	· · · · ·	
Marine Pollutant (DOT):	No	
Regulatory information Safety, health and environmental regulation GHS label elements The product is classifie Hazard pictograms	ons/legislation specific for the substance or mixture d and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
P305+P351+P338 IF IN EYES: Rinše caution	e/gas/mist/vapours/spray. rotective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P304+P340 IF INHALED: Remove per P405 Store locked up.	ainer in accordance with local/regional/national/international regulations.	
National regulations ' This product is not listed in the U.S. Environr to research and development only. This prod	nental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric luct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This rooses or in formulations for commercial purposes.	
Prop 65 - Chemicals known to cause canc Prop 65 - Developmental toxicity Substanc Prop 65 - Developmental toxicity, female S Prop 65 - Developmental toxicity, male Su Information about limitation of use: For us Other regulations, limitations and prohibin Substance of Very High Concern (SVHC) a	se is not listed. Substance is not listed. Ibstance is not listed. se only by technically qualified individuals.	
Substance is not listed.	uiring Authorisation for use) Substance is not listed. Safety Assessment has not been carried out.	
information to ensure proper use and protect	as a supplement to other information gathered by them, and should make independent judgement of suitability of this the health and safety of employees. This information is furnished without warranty, and any use of the product not i Sheet, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Date of preparation / last revision 11/24/20 Abbreviations and acronyms: RID: Reglement international concernant le transport des m IATA-DGR: Dangerous Goods Regulations by the "Internati ICAO: International Civil Aviation Organization		
(CAO-TI: Technical Instructions by the "International Civil A MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information Syste LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (US NTP: National Toxicology Program (USA) MRC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	viation Organization" (ICAO) Chemical Society) m (Canada)	
VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial H OSHA: Occupational Safety and Health Administration (US: NTP: National Toxicology Program (USA) IARC: International Agency (USA) PPA: Environmental Protection Agency (USA)	lygienists (USA) Aj	