





Product name: Ethyl imidazole-2-carboxylate (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 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 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 Reep 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. **Penetration time of glove material (in minutes)** Not determined **Eye protection:** Safety glasses **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Crystalline powder Yellow Odor: Not determined Not determined Odor threshold: pH-value: Not applicable Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: 177-180 °C (351-356 °F) Not determined Not determined Flash point: Not applicable Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: Ethvl imidazole-2-carboxvlate

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Product name: Ethyl imidazole-2-carboxylate		
Product name. Luryi ningazore-z-gai		(Contd. of page 2)
Auto igniting:	Not determined.	(
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not determined. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water).	Not determined	
Viscosity: Viscosity: dynamic: kinematic: Other information	r Not determined. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides	t information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec	kin irritation. rious eye irritation. wown. own and a constant of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. on. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor- Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant infor- Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. ht	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportati	tion.	
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.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
		(Conta. on page 4)

(Contd. on page 4)

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DOT Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations/leg	
GHS07	
P304+P340 IF INHALED: Remove person to Store locked up. P405 Store locked up. P501 Dispose of contents/container in National regulations This product is not listed in the U.S. Environmental to research and development only. This product mus product must not be used for commercial purposes SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Developmental toxicity Substance is no Prop 65 - Developmental toxicity, female Substance Information about limitation of use: For use only Other regulations, limitations and prohibitive regulations	ngs) Substance is not listed. bstance is not listed. bt listed. re is not listed. re is not listed. by technically qualified individuals. gulations Jing to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on t gulations of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cle 67 and Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placing on t gulations of the description (EC) No. 1907/2006 (REACH) for the manufacturing, placender (EC) No. 1907/2006 (REACH) for the manufacturing (EC) No. 1907/
Other information Employers should use this information only as a su information to ensure proper use and protect the he conformance with this Material Safety Data Sheet, o	pplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not i or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depai Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemica HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Cana LC50: Lethal concentration, 50 percent UPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	rtment al Society) ada)
NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer	