





Product name: 4-Propionylpyridine (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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. **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: Liquid Colorless Odor: Not determined Odor threshold: Not determined pH-value: Not determined Change in condition Melting point/Melting range: Not determined 80-90 °C (176-194 °F) (2 mmHg) Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

Product name: 4-Propionylpyridine

Product name: 4-Propionylpyridine		
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined Not determined	
Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined. Not determined. Not miscible or difficult to mix	
Partition coefficient (n-octanol/water) Viscosity: dynamic:	: Not determined. Not determined.	
kinematic: Other information	Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides		
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. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. /n. - repeated exposure: No effects known. - single exposure: No effects known.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t 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. elevant information available. mation available. he environment without proper governmental permits. t	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information Not a hazardous material for transportat	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)

(Contd. on page 4) USA

Product name: 4-Propionylpyridine		
	(Contd. of page 3)	
DOT Marine Pollutant (DOT):	No	
15 Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms GHS07	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves/prote P305+P351+P338 IF IN EYES: Rinse cautiousl P362 Take off contaminated clothi P321 Specific treatment (see on th P332+P313 If skin irritation occurs: Get In P337+P313 If skin irritation persists: Get IN National regulations This product is not listed in the U.S. Environment to research and development only. This product product must not be used for commercial purpo. SARA Section 313 (specific toxic chemical II California Proposition 65 Prop 65 - Chemicals known to cause cancer Prop 65 - Developmental toxicity, statance in Prop 65 - Developmental toxicity, male Subst Information about limitation of use: For use Co Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed.	hiš label). medical advice/attention. medical advice/attention. metical advice/attention. metical advice/attention. metical advice/attention. metical advice/attention. metical by or directly under the supervision of a technically qualified individual as defined by TSCA. This bases or in formulations for commercial purposes. istings) Substance is not listed. "Substance is not listed. bisted. bisted. bisted. bisted. bisted. only by technically qualified individuals. e regulations cording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the iring Authorisation for use) Substance is not listed.	
information to ensure proper use and protect the	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 in Set, or in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing De Date of preparation / last revision 11/23/2015 Abbreviations and acronyms: RID: Reglement international concernant le transport des marci (ATA-DGR: Dangerous Goods Regulations by the "International (CAO: International Civil Aviation Organization (CAO: International Instructions by the "International Civil Aviati IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association (ATA: International Air Transport Association (ATA: International Air Transport Association (ATA: International Air Transport Association (CAS: Chemical Abstrats Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (U LOS0: Lethal dose, 50 percent LD50: Lethal dose, 50 percent ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	5 ⁷ / - chandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) al Air Transport Association" (IATA) tion Organization" (ICAO)	