

Safety Data Sheet acc. to OSHA HCS



(Contd. on page 2)

(Contd. of page 1)

	(Contd. of page 1)
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.	
Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
Information for doctor Most important symptoms and effects, both acute and delayed	
Causes skin irritation. Causes serious eye irritation.	
May cause respiratory irritation. 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	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Environmental precautions: Do not allow product to reach sewage system or any water course. 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	
Storage 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.	
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:	
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	
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.	
Recommended filter device for short term use:	o main o if oir
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to deter purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Provide a character.	ennine II all-
Protection of hands: Impervious gloves Check perturbus deven prior to each use for their proper condition	
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.	
Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm	
Glove thickness 0.11 mm Eye protection: Safety glasses Body protection: Protective work clothing.	
	(Contd. on page 3)

		(Contd. of page 2)		
9 Physical and chemical propertie	s			
Information on basic physical and chemical properties				
General Information Appearance:				
Form: Odor:	Crystalline powder Not determined			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	118-121 °C (244-250 °F) Not determined Not determined Not determined Not determined Not determined Not determined			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.			
Water: Partition coefficient (n-octanol/water Viscosity:	Soluble): Not determined.			
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.			
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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents 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 classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.				
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. Recommended cleansing agent: Water, if necessary with cleansing agents.				
Recommended cleansing agent: Wat	er, il necessary with cleansing agents.	USA (Contd. on page 4)		
		,		

Product name: 2-Aminopyrazine			
	(Contd. of page 3)		
14 Transport information			
UN-Number DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name	Not applicable		
DOŤ, ADN, IMĎG, ľATA Transport hazard class(es)	Not applicable		
DOT, ADR, ADN, IMDG, IATA			
Class Rocking group	Not applicable		
Packing group DOT, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information:			
DOT Marine Ballutent (DOT):	Νο		
Marine Pollutant (DOT): UN "Model Regulation":	-		
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with Hazard pictograms	substance or mixture 29 CFR 1910 (OSHA HCS)		
GHS07			
Signal word Warning Hazard statements H310 Causes skin Irritation. H315 Causes skin Irritation. H316 Causes skin Irritation Causes and L316 Causes. H316 Causes Skin Irritation Causes Skin Irritation. H316 Causes Skin Irritation Causes Skin Irritation Infersh and keep at rest in a position confortable for breathing. H317 H316 Causes Skin Irritation causes Skin Italian. H317 H317 H318 Irritation causes Skin Italian. H316 H317 H317 H318 Irritation causes Skin Italian. H316 H317 H317 H317 H317 H317 H317 H317 H317			
16 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 this 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 in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department issuing SDS: Global Marketing Department Date of preparation / last revision 01/27/2017 /- Abbreviations and acronyms: ANP: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DEN USS Department of Transportion / Last revision Chemical Substances ENS: European Inventory of Existing Chemical Substances ENS: European Inventory of Existing Chemical Substances EVENCE: European Inventory of Existing Chemical Society) HMIS: Haardous Materials Information System (Canada) LCSD: Lethal concentration. 50 percent VPW: very Persistent and very Bioaccumulative ACGH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Cocupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) Kin Intri. 2: Skin corosion/intiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazard Category 2A Eve Int: 2: Senious eye damage/eye initiation, Hazar			