

Material Safety Data Sheet

(M0736)

HAZARD WARNINGS **RISK PHRASES PROTECTIVE CLOTHING** Flammable material; avoid heat and sources of ignition. Irritating to skin, eyes, and the respiratory system. Section I. Chemical Product and Company Identification Chemical Name 2-Methylpyrazine **TCI** America Supplier M0736 Catalog Number 9211 N. Harborgate St. Portland OR Synonym Not available. 1-800-423-8616 Chemical Formula $C_5H_6N_2$ In case of **Chemtrec**® CAS Number 109-08-0 Emergency (800) 424-9300 (U.S.) Call (703) 527-3887 (International) Section II. Composition and Information on Ingredients Chemical Name CAS Number Percent (%) TLV/PEL Toxicology Data Rat LD₅₀ (oral) 1800 mg/kg 2-Methylpyrazine 109-08-0 Min. 98.0 Not available. (GC) Mouse LD₅₀ (intraperitoneal) 1820 mg/kg Section III. Hazards Identification Acute Health Effects Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound. CARCINOGENIC EFFECTS : Not available. Chronic Health Effects MUTAGENIC EFFECTS : Mutations: Yeast (S cerevisiae) 8500 mg/L (-S9) TERATOGENIC EFFECTS : Not available. Toxicity to the reproductive system: Not available. Section IV. First Aid Measures Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping Eye Contact eyelids open. COLD water may be used. DO NOT use an eye ointment. Flush eyes with running water for a minimum of 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention. Treat symptomatically and supportively Skin Contact If the chemical gets spilled on a clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. Seek medical attention. Treat symptomatically and supportively. Wash any contaminated clothing before reusing. Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform artificial respiration. Seek medical attention. Treat symptomatically and supportively. Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible what is causing the Ingestion obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person drink several

obstruction but do not force fingers or a hard object between the victim's teeth. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Seek immediate medical attention and, if possible, show the chemical label. Treat symptomatically and supportively.

Section V. Fire and Explosion Data Not available. Flammability Combustible. Auto-Ignition Flash Points 50°C (122°F) Flammable Limits Not available. **Combustion Products** These products are toxic carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂). Fire Hazards Highly flammable in presence of open flames and sparks, of heat. Risks of explosion of the product in presence of mechanical impact: Not available. **Explosion Hazards** Risks of explosion of the product in presence of static discharge: Not available. No additional information is available regarding the risks of explosion.

Emergency phone number (800) 424-9300

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Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemicals, CO ₂ , water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.		
Section VI. A	ccidental Release Measure	s	
Spill Cleanup Instructions	Combustible material. Store away from heat and sources of ign inert material and put the spilled material i		
Section VII. Ha	andling and Storage		
Handling and Storage Information	FLAMMABLE. IRRITANT. Store away from heat and sources of ignition. Mechanical exhaust required. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DC NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Always store away from incompatible compounds such as oxidizing agents.		
Section VIII. E	xposure Controls/Persona	I Protection	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.		
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Boots. Gloves. A MSHA/NIOSH approved respirator must be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling for the product.		
Exposure Limits	Not available.		
Section IX. Pl	hysical and Chemical Prop	erties	
Physical state @ 20°C	Liquid.	Solubility	Soluble in cold water, hot water.
Specific Gravity	1.03 (Water = 1)		
Molecular Weight	94.12g/mole	Partition Coefficient	Not available.
Boiling Point	135°C (275°F)	Vapor Pressure	Not available.
Melting Point	-29°C (-20.2°F)	Vapor Density	3.2 (Air = 1)
Refractive Index	Not available.	Volatility	Not available.
Critical Temperature		Odor	Not available.
Viscosity	Not available.	Taste	Not available.
Section X. Si	tability and Reactivity Data		
Stability	This material is stable if stored under proper conditions. (See Section VII for instructions)		
Conditions of Instability	Avoid excessive heat and light.		
Incompatibilities	Highly reactive with oxidizing agents.		
Section XI. To	oxicological Information		
RTECS Number	UQ3675000		
Routes of Exposure	Eye contact. Ingestion. Inhalation. Skin contact.		
Toxicity Data	Rat LD₅₀ (oral) 1800 mg/kg Mouse LD₅₀ (intraperitoneal) 1820 mg/kg		
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Not available. MUTAGENIC EFFECTS : Mutations: Yeast (S cerevisiae) 8500 mg/L (-S9) TERATOGENIC EFFECTS : Not available. Toxicity to the reproductive system: Not available.		
Acute Toxic Effects	Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.		

M0736 2-Methylpyrazine Page 3 Section XII. Ecological Information Not available. Ecotoxicity Not available. **Environmental Fate** Section XIII. **Disposal Considerations** Waste Disposal Recycle to process, if possible. Consult your local or regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state, and local regulations when disposing of this substance Section XIV. Transport Information DOT Classification DOT CLASS 3: Flammable liquid. PIN Number UN1993 Proper Shipping Name Flammable liquids n.o.s. Packing Group (PG) Ш DOT Pictograms

Section XV. Other Regulatory Information and Pictograms This product is **ON** the EPA Toxic Substances Control Act (TSCA) inventory. TSCA Chemical Inventory (EPA) WHMIS Classification WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC). (Canada) EINECS Number (EEC) 203-645-8 EEC Risk Statements R12- Extremely flammable. R18- In use, may form flammable/explosive vapor-air mixture. R22- Harmful if ingested. R38- Irritating to skin. R41- Risk of serious damage to eyes. Not available. Japanese Regulatory Data

Section XVI. Other Information

Version 1.0 Validated on 4/2/1997. Printed 3/9/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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