

Section 1. Product and Company Identification

Proc	luct	Name	
CAS	Νυι	mber	

2-Amino-5-Methylpyridine 1603-41-4

Parchem - fine & spe	ecialty chemicals	EMERGENCY RESPONSE NUMBER
415 Huguenot Stree	t	CHEMTEL
New Rochelle, NY 1	0801	Toll Free US & Canada: 1 (800) 255-3924
2 (914) 654-6800	🐨 (914) 654-6899	All other Origins: 1 (813) 248-0585
🖤 parchem.com	🞽 info@parchem.com	Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification

Acute Toxicity Oral: Category 3 Acute Toxicity Dermal: Category 3 Skin irritation: Category 2 Serious eye damage/eye irritant: Category 2A

GHS Label Elements Pictograms:



Signal word: DANGER

Hazard and precautionary statements Hazard Statements

H301: Toxic if swallowed.H311: Toxic in contact with skin.H315: Causes skin irritation.H319: Causes serious eye irritation.

Precautionary Statements

Prevention

P264: Wash hands thoroughly after handling.P280: Wear protective gloves/protective clothing/eye protection/face protection.

P270: Do not eat, drink or smoke when using this product.

Response

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.



P330: Rinse mouth. P302+P350: IF ON SKIN: Gently wash with plenty of soap and water. P361: Remove/Take off immediately all contaminated clothing. P363: Wash contaminated clothing before reuse. P332+P313: If skin irritation occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. Storage P405: Store locked up.

Disposal

P501: Dispose of contents/container to local/regional/national/international regulations.

Section 3. Composition / Information on Ingredients		
Common Name	2-Amino-5-Methylpyridine	
Synonym(s)	2-Amino-5-picoline; 2-Pyridinamine, 5-methyl-; 5-Methyl-2-aminopyridine	
Formula	$C_6H_8N_2$	
CAS Number	1603-41-4	

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COMPONENT	CAS NUMBER	CONCENTRATION
2-Amino-5-Methylpyridine	1603-41-4	> 98%

Section 4. First Aid Measures

Acute effects

Eyes: Irritation, redness, pain, burns, loss of vision.

Skin: Irritation, pain, redness, burns. Behavioral somnolence observed in test animals.

Ingestion: Abdominal pain, burning sensation, diarrhea, shock or collapse, sore throat or vomiting. May include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Exposure can cause gastrointestinal disturbance.

Inhalation: Sore throat, cough, burning sensation, shortness of breath, labored breathing, headache, nausea, and vomiting. Exposure can cause headache, dizziness.

Chronic effects: To the best of our knowledge chronic effects of this compound have not been fully investigated.

First-Aid

Eyes: If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.

Skin: Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.



Ingestion: If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.

Section 5. Firefighting Measures

Flash Point: 118°C

Flammability: Non Flammable material

Extinguishing media

Appropriate Extinguishing Media: Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may be in effective. Do not use water jet or fog (spray) to extinguish. Water can be effective in cooling down the fire-exposed containers and knocking down the vapors. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

Special Protective Equipment and Precautions for Firefighter:

This material is extremely hazardous to health, but firefighters may enter areas with extreme care. Full protective clothing including a self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms and waist should be provided. No skin surface should be exposed. Evacuate the area and fight fires from a safe distance.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.

Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin.

Chemical is water-soluble. Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable.

Unusual fire and explosion hazard:

Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide.

High vapor concentration may result in an explosion hazard.

Vapors are heavier than air. May travel considerable distance from source and flashback.

Section 6. Accidental Release Measures

Minor Spill

Clean up all spills immediately following relevant Standard Operating Procedures.

Avoid breathing vapors and contact with skin and eyes.

Shut off leak source if possible.

Shut off all possible sources of ignition.

Wear protective clothing, boots, impervious gloves and safety glasses.

Wipe up.

Decontaminate all equipment.



Major Spill

Alert Emergency Responders and tell them location and nature of hazard. Shut off all possible sources of ignition and increase ventilation. Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate. Clear area of personnel and move upwind.

Stop leaks if possible.

Prevent, by any means available, spillage from entering drains or water and watercourses. Collect recoverable product into labeled containers for recycling, recovery or disposal.

Contain spill with sand, earth or vermiculite.

Spread area with lime or absorbent material, and leave for at least 1 hour before washing. Clean up all tools and equipment.

Inform authorities in event of contamination of any public sewers, drains or water bodies.

Section 7. Handling and Storage

Handling

Do not breathe vapor or mist.

Wear protective gloves/clothing and eye/face protection.

Wash thoroughly after handling.

Ground and secure containers when dispensing or pouring product.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Launder contaminated clothing before re-use.

If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.

Use in a well ventilated place/Use protective clothing commensurate with exposure levels.

Storage

Store in a cool, dry and ventilated place away from heat, flame and sparks.

Store at ambient condition.

Store away from incompatible materials. Avoid moisture.

Keep only in original container.

Keep securely closed when not in use

Section 8. Exposure Controls / Personal Protection

Control Parameters

Exposure Limits Values

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
2-Amino-5-methylpyridine	None listed	None listed	None listed

Exposure Limits (International): Not available.

OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.



Derived No-Effect-Levels (DNEL)/Predicted No-effect-concentration (PNEC): DNEL and PNEC data not available.

Exposure controls

Appropriate Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection: Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Hands: Wear appropriate protective gloves to prevent skin exposure.

Eyes: Safety goggles/ Chemical Safety glasses and Face shield.

Clothing: Boots and clothing to prevent contact.

Respirator: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

For emergency situations, wear a positive pressure, pressure-demand, full face piece self-contained breathing apparatus (SCBA) or pressure- demand supplied air respirator with escape SCBA and a fully encapsulating, chemical resistant suit. (EPA, 1998).

General Hygiene and general comments:

Wash hands and face after working with substance. Immediately change contaminated clothing. Apply skin protective barrier cream.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties. Appearance: Yellowish solid crystals **Odor:** Characteristic Odor Threshold: Not available Melting point: 76 - 77°C Boiling point (760 mmHg): 227°C Flash point: 118°C **Evaporation rate (n-BuAc = 1):** Not available **Explosive limits:** Not available Vapor pressure: Not available Vapor density (Air=1): Not available Specific gravity (Water=1): Not available Solubility (20°C): 100 g/L in water **pH:** Not available Log Kow (n-Octanol/Water): 1.02 Auto-ignition temperature: Not available **Decomposition temperature:** Not available



Viscosity: Not available Flammability: Non Flammable Oxidizer: No Corrosive material: No Explosive material: No

Section 10. Stability and Reactivity

Stability: Stable under normal condition of temperature and pressure.

Conditions to avoid: Keep away from heat, sparks, flame, high temperature and incompatible chemicals.

Avoid contact with water.

Incompatible chemicals: Moisture, contact with water, oxidizing agents, strong acids and nitriles.

Hazardous decomposition: Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & nitrogen and irritating and toxic fumes. **Hazardous Polymerization**: Not reported.

Section 11. Toxicological Information

Acute Toxicity: 2-Amino-5-methylpyridine causes skin, eyes and respiratory tract irritation. It is toxic if swallowed. Target Organ is Central Nervous system.

RTECS#: TJ5141000 Acute Oral LD50 (Rat): 200mg/kg Acute Dermal LD50 (Guinea Pig): 400 mg/kg

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitization: Causes irritation to respiratory system.
Germ cell Mutagenicity: No data is available.

Carcinogenicity

Not listed by NTP, IARC, and OSHA. Not present on the EU CMR list. According to information presently available 2-Amino-5-methylpyridine is not found to be carcinogenic.

Reproductive toxicity: No data is available. STOT - single exposure: No data is available. STOT - repeated exposure: No data available. Aspiration Hazards: No data available.



Section 12. Ecological Information

Toxicity Ecotoxicity

It is expected to be chronically toxic to fish and other aquatic organisms. Fish 96-hr LC50: 172.275 mg/l (Estimated). Fish 14-day LC50: 111.235 mg/l (Estimated). Daphnia 48-hr LC50: 1.363 mg/l (Estimated).

Persistence and degradability

It is not expected to be readily biodegradable in aerobic and anaerobic conditions. The PBT Profiler has estimated that2-Amino-5-methylpyridine is expected to be found predominantly in soil and its persistence estimate is based on its transformation in this medium.

Bioaccumulative potential

BCF: 1.217 (Estimated) Log Kow: 1.02 (Estimated) Based on the Log Kow and Bioconcentration factor value it is expected to have low potential to concentrate in fatty tissue of fish and aquatic organisms.

Mobility in soil (Predicted):

Log Koc = 1.861 (estimated). Henry's Law Constant = 2.664E-007 atm-m3/mole. Log Kow = 1.02 (estimated).

Other adverse effects

Environment Fate: Based on environmental modeling, it is estimated to be persistent in the environment and is expected to be found predominantly in soil. It is also expected to be found in water but not in sediment. It has low potential to bio accumulate and does not biodegrade readily.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Land Transport ADR/RIC UN Number: UN 2811 Proper Shipping Name: Toxic Solid, Organic, N.O.S. (2-Amino-5-Methylpyridine) Hazard Class: Class 6.1 Packing Group: PG III



Maritime Transport IMDG UN Number: UN 2811 Proper Shipping Name: Toxic Solid, Organic, N.O.S. (2-Amino-5-Methylpyridine) Hazard Class: Class 6.1 Packing Group: PG III

Air Transport IATA UN Number: UN 2811 Proper Shipping Name: Toxic Solid, Organic, N.O.S. (2-Amino-5-Methylpyridine) Hazard Class: Class 6.1 Packing Group: PG III

Environmental Hazards Marine Pollutant: No

Section 15. Regulatory Information

European Union Information

Classification as per Regulation 67/548/EEC: T; R24/25 - Xi; R36/37/38

T - Toxic Xi- Irritant

Risk Phrases

R24/25: Toxic in contact with skin and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

Safety Phrases

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Classification as per CLP Regulation 1272/2008:

Hazards Class and Category: Acute tox oral cat.3; Acute tox dermal Cat.3, skin irritation Cat.2; Eye irritation Cat.2

Hazard Statements: H301; H311; H315; H319

Chemical Inventory Lists	Status
TSCA	Present
EINECS	216-503-5
Canada (DSL/NDSL)	Listed/NDSL



Japan	Not available
Korea	Not available
Australia	Not available
China (IECSC)	Present

US Information

TSCA: CAS# 1603-41-4 is listed on the TSCA inventory.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule. **Section 12b:** None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ): None of the chemicals in this material have an RQ.Section 302 (TPQ): None of the chemicals in this product have a TPQ.Section 313: No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. **STATE:** CAS# 1603-41-4 is not present on state lists from CA, PA, MN, MA, FL, or NJ. **California No Significant Risk Level:** None of the chemicals in this product are listed.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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