

MATERIAL SAFETY DATA SHEET

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3,5-Lutidine, 98+%

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 3,5-Lutidine, 98+% **Catalog Numbers:** 12521-0000, 12521-0050, 12521-1000, 12521-5000 Synonyms: 3,5-Dimethylpyridine Company Identification (Europe): Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium Company Identification (USA): Acros Organics One Reagent Lane Fairlawn, NJ 07410 For information in North America, call: 800-ACROS-01 For information in Europe, call: 0032(0) 14575211 For emergencies in the US, call CHEMTREC: 800-424-9300 For emergencies in Europe, call: 0032(0) 14575299

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS		
CAS #	:	591-22-0
Chemical Name	:	3,5-Lutidine
%	:	98+%
EINECS#	:	209-708-6
Hazard Symbols	:	XN
Risk Phrases	:	10 20/21/22

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

Harmful if absorbed through the skin. If absorbed, may cause symptoms similar to those for ingestion.

Ingestion:

Harmful if swallowed. Causes cough, sore throat, chest pain, and lightheadedness.

Inhalation:

Harmful if inhaled. The toxicological properties of this substance

SECTION 4 - FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Flammable liquid and vapor.

Extinguishing Media:

Use foam, dry chemical, or carbon dioxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

SECTION 7 - HANDLING and STORAGE

Handling:

Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container.

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low. Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear liquid Color: yellow Odor: Not available. DH: Not available. Vapor Pressure: 2 hPa @ 20 deg C Viscosity: Not available. Boiling Point: 169 - 170 deg C @ 760.00mm Hg Freezing/Melting Point: -9 deg C Autoignition Temperature: Not available. Flash Point: 53 deg C (127.40 deg F) Explosion Limits, lower: Not available. Explosion Limits, upper: Not available. Decomposition Temperature: Solubility in water: 33 G/L WATER (20°C) Specific Gravity/Density: .9390g/cm3 Molecular Formula: Molecular Weight: 107.15

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, ignition sources, exposure to moist air or water.

Incompatibilities with Other Materials:

Oxidizing agents, acids, acid chlorides, chloroformates.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

RTECS#: CAS# 591-22-0 unlisted. LD50/LC50: Not available. CAS 108-47-4; Rtecs OK9400000; 2,4-lutidine: Oral, rat: LD50 = 200 mg/kg Carcinogenicity: 3,5-Lutidine -Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

SECTION 14 - TRANSPORT INFORMATION

ΙΑΤΑ

Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S.* Hazard Class: 3 UN Number: 1992 Packing Group: III IMO Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. Hazard Class: 3 UN Number: 1992 Packing Group: III RID/ADR Shipping Name: FLAMMABLE LIQUID, TOXIC, N.O.S. Hazard Class: 3 UN Number: 1992 Packing group: III

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives Hazard Symbols: XN Risk Phrases: R 10 Flammable. R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. Safety Phrases: S 16 Keep away from sources of ignition - No smoking.S 36/37 Wear suitable protective clothing and gloves.

WGK (Water Danger/Protection) CAS# 591-22-0: No information available.

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

CAS# 591-22-0 is listed on Canada's NDSL List. CAS# 591-22-0 is not listed on Canada's Ingredient Disclosure List. Exposure Limits US FEDERAL TSCA

CAS# 591-22-0 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.