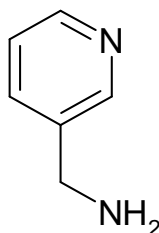


SAFETY DATA SHEET**Section 1: IDENTIFICATION**

Product Name	3-(Aminomethyl)pyridine
CAS RN	3731-52-0
EC#	223-091-0
SYNONYMS	3-Picolylamine, 3-Pyridinemethylamine, 3-Pyridylmethylamine, Picolamine
OTHER LANGUAGES	De: Picolamin Es: Picolamina Fr: Picolamine
SYSTEMATIC NAME	3-(Aminomethyl)pyridine, 3-Pyridinemethanamine
MOLECULAR FORMULA	C ₆ H ₈ N ₂

STRUCTURAL FORMULA**INGREDIENTS**

Chemical	CAS	Purity	unit
3-(Aminomethyl)pyridine	3731-52-0	>98%	w/w

PRODUCT USES

3-(Aminomethyl)pyridine is used as an intermediate in the pharmaceutical industry.

FACTORY & REGISTERED OFFICE:

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Section 2: HAZARD IDENTIFICATION

GHS CLASSIFICATION

Skin corrosion / irritant: Category 1A
Serious eye damage/eye irritant: Category 2A

**OVERVIEW**

It is colorless to yellow oily liquid with an amine like odor. It is soluble in water and non-flammable. It is corrosive to skin and eyes. It causes digestive and respiratory tract burns.

Classification as per CLP Regulation (EC) 1272/2008

Skin Corrosion/irritant: Category 1 A
Serious eye damage/eye irritant: Category 2

Signal word: Danger!

GHS Pictogram: GHS 05

HAZARD STATEMENTS

H314: Causes severe skin burns and eye damage
H319: causes serious eye irritation

PRECAUTIONARY STATEMENTS**Prevention**

P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands and eyes thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 the container as per local norms and regulations.

Section 3: Composition of ingredients

Sr.No.	Chemical	CAS #	EC#	Purity
1	3-(Aminomethyl)pyridine	3731-52-0	223-091-0	>98%

Section 4: First Aid Measures**Key symptoms**

- *Acute effects:*

It causes severe skin burns and eye damage. It causes digestive and respiratory tract burns.

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: Fire Fighting Measures

Flash Point:108⁰C

Non-Flammable

Extinguishing media

Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. Water sprays 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.

Special Protective Equipment And Precautions For Fire Fighter.

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

Section 6: Accidental Release Measures**Minor Spills**

- 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.
- 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.
- 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 & Storage**Handling**

- Do not breathe vapor.
- 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, well ventilated place
- Keep only in original container.
- Keep securely closed when not in use.

Section 8: Exposure Controls/Personal Protection**Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL
3-(Aminomethyl)pyridine	Not established	Not established

Exposure 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.

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
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Sr.No.	Parameter	Typical value
1	Appearance	Colorless to yellowish oily liquid
2	Odor	Amine like
3	Odor Threshold	Not available
4	Melting point	-21°C
5	Boiling point	224-226 °C
6	Flash point	108°C
7	Evaporation rate (n-BuAc=1)	Not available
8	Explosive limits	Not available
9	Vapor pressure	Not available
10	Vapor density (air=1)	Not available
11	Specific gravity (water=1)	1.069
12	Solubility	Soluble
13	PH	11-12
14	Log Pow (octanol/water)	-0.32
15	Auto-ignition temperature	Not available
16	Decomposition temperature	Not available
17	Viscosity	Not available
18	Molecular Weight	108.14
19	PKa (@25°C)	Not available
20	Koc	389 (estimated)
21	Oxidizer	No
22	Corrosive material	Yes
23	Explosive material	No

Section 10: Stability and Reactivity

Stability: Stable under normal temperature and pressure

Conditions to avoid: incompatible materials, skin contact, vapor generation

Incompatible chemicals: Strong oxidizing agents, strong acids

Hazardous decomposition: Thermal decomposition may produce hydrogen Cyanide, nitrogen oxides and carbon monoxide.

Hazardous Polymerization: Not reported.

Section 11: Toxicological Information**Acute Studies:**

It causes severe skin burns and eye damage. It causes digestive and respiratory tract burns. The toxicological properties of this chemical have not been thoroughly investigated.

RTECS#: Unlisted

LD50/ LC50: Not available

CARCINOGENICITY

- Not listed by NTP, IARC and OSHA.
- Not present on the EU CMR list.
- According to information presently available 3-(Aminomethyl)pyridine is not found to be carcinogenic.

Section 12: Ecological Information**Ecotoxicity:**

- Fish 96-hr LC50 = 909.499 (estimated)
- Daphnid 48-hr LC50 = 49.760 (estimated)

Mobility:

- Koc=389. Moderate absorption in soil.
- Henry's Law constant: 1.369E-008 atm-m³/mole. Moderately volatile from aqueous bodies.
- Log Pow= -0.32. Low potential to bioaccumulate.

Environmental fate


Based on environmental modeling, this material is not expected to be persistent in the environment, is not expected to bioaccumulate. It is not predicted to undergo ready biodegradation

Section 13: Disposal Consideration

- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

Section 14: Transport Information
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It is considered to be Hazardous for Transport by Road/Rail/Sea/Air and regulated by ADR/RID/IMDG/IATA as given below:

S.No	Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
Land transport	ADR/RID	2735	Amines, liquid, corrosive, n.o.s. (3-(Aminomethyl)pyridine)	8	II
Maritime Transport	IMDG	2735	Amines, liquid, corrosive, n.o.s. (3-(Aminomethyl)pyridine)	8	II
Air Transport	IATA	2735	Amines, liquid, corrosive, n.o.s. (3-(Aminomethyl)pyridine)	8	II
Hazard Label	Corrosive				

Section 15: Regulatory Information

European information

EC# 223-091-0

Classification: C; R34

C Corrosive

RISK PHRASES

- R34 Causes burns.

SAFETY PHRASES

- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
- 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 (EC) 1272/2008

Skin Corrosion Cat.1C, Eye damage Cat.2

Hazard Statements: H314; H319

CLP Notification Number: 02-2119655487-26-0000

Pre-Registration Status under REACH Regulation (EC) No. 1907/2006

EC Name	Submission Number	Pre-registration Number	Name of the Organization (OR)	Validity
Picolamine	DC229787-42	05-2114589804-33-0000	Jubilant Pharmaceuticals NV	31/05/2018

US information

- **TSCA**
CAS# 3731-52-0 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.
- **CERCLA Hazardous Substances and corresponding RQs**
None of the chemicals in this material have an RQ.
- **SARA Section 302 Extremely Hazardous Substances**
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 depleters.
This material does not contain any Class 2 Ozone depleters.
- **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# 3731-52-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- **California Prop 65**
California No Significant Risk Level: None of the chemicals in this product are listed.

Section 16: Other Information

SDS data

Chemical: 3-(Aminomethyl)pyridine

CAS #: 3731-52-0

File Name: 0415C01 Div.06 sds 3-(Aminomethyl)pyridine

Date: December 10, 2010

Revision Number: 01

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