



MATERIAL SAFETY DATA SHEET

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Our Formula. Your Success.

SECTION 1: PRODUCT AND COMPANY DETAILS

Product Name (2-amino-1*H*-benzimidazol-5-yl)(phenyl)methanone
Product Number EPL-AA32
Recommended Use Research chemical. Not for drug, household or other uses.

Manufacturer Epichem Pty Ltd (ABN 80 106 769 902)
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Fax Number +61 (8) 6167 5201 (Office hours only)

SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification
Xn; Harmful
Risk Phrase(s)
R22: Harmful if swallowed.
Safety Phrase(s)
S20/21, S28.2, S46, S56, S64

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient(s) Name(s)
(2-amino-1*H*-benzimidazol-5-yl)(phenyl)methanone
Other Names
2-amino-5-benzoylbenzimidazole
CAS Number
52329-60-9

SECTION 4: FIRST AID MEASURES

General Information
Consult a physician. Show this safety data sheet to the doctor in attendance.
Skin Contact
Remove all contaminated articles of clothing, shoes, gloves, etc and immediately wash contaminated area with copious amounts of soap and water for at least 15 minutes. If irritation persists, SEEK MEDICAL ATTENTION.
Eye Contact
Immediately irrigate the eyes with copious amounts of water for several minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, SEEK MEDICAL ATTENTION.
Inhalation
Remove to fresh air, rest and keep warm. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In severe cases or if symptoms persist, SEEK MEDICAL ATTENTION.
Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media
Suitable: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Risks
Specific Hazard(s): Carbon oxides, nitrogen oxides (NO_x)
Precautions for Firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions
Wear approved mask/respirator, protective clothing, suitable eye protection and gloves. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Methods of Cleaning Up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. See Section 13.
In Case of Leak or Spill
Avoid contamination. Clean spill as described above.
Environmental Precautions
Do not allow material to enter the ground, drains or waterways.

SECTION 7: HANDLING AND STORAGE

Handling
This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet. It should always be handled in an efficient fumehood or equivalent system. It should be borne in mind that the toxicological and physiological properties of this material are not yet well determined and that new hazardous products may arise from reactions between chemicals. Do not breathe dust. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
Storage
Store in closed vessels in a cool dry well-ventilated place. Protect from heat, light and moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use appropriate engineering controls to reduce air contamination to approved/permissible national exposure standards. Where such systems are not available wear suitable personal protective equipment which performs satisfactorily and meets local/national standards. There should be local procedures for selection, training, inspection and maintenance of this equipment. Safety shower, eye wash and mechanical exhaust required. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Respiratory Precautions

Wear approved mask/respirator.

Skin Protection

Wear complete suit protecting against chemicals and compatible chemical-resistant gloves.

Eye Protection

Wear suitable safety glasses with side-shields.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula	C ₁₄ H ₁₁ N ₃ O
Molecular Weight	237.26 g/mol
Colour and Form	Yellow powder
Boiling Point	Not available
Melting Point	193.6-196.2°C (decomposition)
Flash Point	Not available
Vapour Pressure	Not available
Density	Not available
Solubility in Water	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Materials to Avoid

Strong oxidising agents.

Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

Possible Hazardous Combustion Products

Carbon oxides, nitrogen oxides (NO_x)

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

LD50 Oral (Mouse) - 450 mg/kg.
LD50 Intraperitoneal (Mouse) - 257 mg/kg.

Health Effects

To the best of our knowledge, the chemical, physical and toxicological properties of this specific compound have not been thoroughly investigated.

Route of Exposure

Skin Contact: May cause skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Eye Contact: May cause eye irritation.
Inhalation: May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion: Harmful if swallowed.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive Toxicity

Developmental Toxicity Oral (Rat):
Oral Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Effects on Embryo or Fetus: Fetal death.

SECTION 12: ECOLOGICAL INFORMATION

Unknown.

SECTION 13: DISPOSAL CONSIDERATIONS

Arrange disposal by a licensed disposal company, in consultation with local Waste Disposal Authority, in accordance with local, state and federal regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: TRANSPORT INFORMATION

UN Number	None allocated
Dangerous Goods Class (Subsidiary Risk)	Not applicable
Hazchem Code	Not applicable
Poisons Schedule Number	Not applicable
Packaging Group	Not applicable
Pack Size and Container Type	Not applicable

SECTION 15: REGULATORY INFORMATION

Indication of Danger:

Xn; Harmful

SECTION 16: OTHER INFORMATION

The information on this Safety Data is correct to the best of our knowledge at the date of publication. However, the information should only be considered as a guide to safe handling, storage and possible use of the substance. We cannot accept liability for any loss, damage or injury which may result from its use. It is of paramount importance that all chemicals should be handled only by suitably qualified, competent personnel within a controlled environment. We shall ensure, so far as is reasonably practicable, that any revision of the Data Sheet is sent to all customers to whom we have directly supplied the material. Should any further information be required, please feel free to contact Epichem on +61 (8) 6167 5200.

END OF MSDS