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MATERIAL SAFETY DATA SHEET

Date of Issue: 17 February 2014
Date of Latest Revision: 31 August 2017

SECTION 1: PRODUCT AND COMPANY DETAILS

Product Name 2-(4-methylphenyl)propanoic acid
Product Number EPL-AA146
Recommended Use Research chemical. Not for drug, household or other uses.

Manufacturer Epichem Pty Ltd (ABN 80 106 769 902)
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SECTION 2: HAZARDS IDENTIFICATION

Hazard Classification
Xi; Irritant
Risk Phrase(s)
R36/37/38
Safety Phrase(s)
S1, S7/9, S22, S23, S26, S28.2, S36/37/39, S51, S56, S63

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient(s) Name(s)
2-(4-methylphenyl)propanoic acid
Other Names
Ibuprofen Impurity D; α ,4-Dimethylphenylacetic acid
CAS Number
938-94-3

SECTION 4: FIRST AID MEASURES

General Information
Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended. 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 and rinse thoroughly. 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 case of unconsciousness place patient in recovery position for transport. In severe cases or if symptoms persist, SEEK MEDICAL ATTENTION.

Ingestion
Wash out mouth with copious amounts of water provided person is conscious. Do not induce vomiting. SEEK MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media
Suitable: Water spray, Carbon dioxide, dry chemical powder or alcohol resistant foam.

Special Risks
Specific Hazard(s): May emit toxic fumes under fire conditions.

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 vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions:
Dilute with plenty of water. Do not allow product to enter drains.

Methods of Cleaning Up
Ensure adequate ventilation. 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
Evacuate area.

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 contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage
Keep container tightly closed in a dry and well-ventilated place. Store at 4° C. 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.

Respiratory Precautions

Wear approved mask/respirator.

Skin Protection

Wear suitable protective clothing and compatible chemical-resistant gloves.

Eye Protection

Wear suitable safety glasses with side shields.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula	C ₁₀ H ₁₂ O ₂
Molecular Weight	164.21 g/mol
Colour and Form	White solids
Boiling Point	Not available
Melting Point	37.0-41.5°C
Flash Point	110°C - closed cup
Vapour Pressure	Not available
Density	Not available
Solubility in Water	Soluble

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 monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.

SECTION 11: TOXICOLOGICAL INFORMATION

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: Causes eye irritation.

Inhalation: May be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be 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.

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. 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
Packaging Group	Not applicable
Hazchem Code	Not applicable
Poisons Schedule Number	Not applicable

SECTION 15: REGULATORY INFORMATION

Indication of Danger:

Xi; Irritant

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 (0) 8 6167 5200.

END OF MSDS