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MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT AND COMPANY DETAILS

Product Name (2*RS*)-2-(3-(2-methylpropyl)phenyl)propanoic acid
Product Number EPL-AA172
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 Statements

GHS06; H301 Toxic if swallowed.
GHS07; H319 Causes serious eye irritation.
GHS07; H335 May cause respiratory irritation.
GHS07; H402 Harmful to aquatic life.
GHS07; H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient(s) Name(s)

(2*RS*)-2-(3-(2-methylpropyl)phenyl)propanoic acid

Other Names

Ibuprofen Impurity A; *m*-isobutyl Ibuprofen; 2-(3-isobutylphenyl)propanoic acid; 2-(3-isobutylphenyl)propionic acid; 2-(3-(2-methylpropyl)phenyl)propionic acid; α -methyl-3-(2-methylpropyl)benzeneacetic acid; 2-(*m*-isobutylphenyl)propionic acid; 2-(*m*-isobutylphenyl)propanoic acid; α -methyl-3-(2-methylpropyl)phenylacetic acid.

CAS Number

66622-47-7

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.

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 appropriate foam. Fight larger fires with water spray or alcohol resistant foam.

Special Risks

Specific Hazard(s): Formation of toxic gases is possible during heating or in case of fire.

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.

Environmental precautions

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

Methods of Cleaning Up

Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal. See Section 13. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

In Case of Leak or Spill

Clean up as described, avoid breathing dust.

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 vapours. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Storage

Store in tightly closed vessels in a cool dry place at 2-8 °C. Protect from heat, light, sources of ignition and moisture. Store only in the original receptacle. Store away from foodstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Skin Protection

Wear suitable protective clothing and compatible chemical-resistant gloves.

Eye Protection

Wear tightly sealed goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula	C ₁₃ H ₁₈ O ₂
Molecular Weight	206.28 g/mol
Colour and Form	Colourless oil
Boiling Point	Not available
Melting Point	Not available
Flash Point	Not available
Vapour Pressure	Not available
Density	Not available
Solubility in Water	Not miscible or difficult to mix.

SECTION 10: STABILITY AND REACTIVITY

Stability

Stable under normal 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.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Ibuprofen:

LD50 Oral, (Mouse) - 500-1000 mg/kg

LD50 Oral, (Rat) - 638 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: Causes serious eye irritation.

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

Ingestion: Toxic if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity

Ibuprofen:

LD50 (96 h) - 173 mg/l (fish)

EC50 (48 h) - 9-11.5 mg/l (daphnia)

General Notes

Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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:

Xn Harmful

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 (8) 6167 5200.

END OF MSDS