

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name KETOPROFEN USP PCCA SPECIAL MICRONIZED
Commercial Name Alrheumum, Aneol, Capisten, Epatec, Ketoprofene, Orudis, Profenid, Dexal, Keduril, Ketofen, Ketosolan, Kevadon, Oru
Product Use Not available.
Restrictions On Use Not available.
Product Code 50-3849
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute toxicity, Oral. 3 Skin Irrit. 2 Eye Irrit. 2 Specific target organ toxicity - single exposure. 3
CFR 1910.1200
Signal Word DANGER
Hazard Statement(s) Toxic if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Pictogram(s) or Symbol(s)

**Precautionary Statement(s):**

Prevention P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response 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.
Storage P405 Store locked up.
Disposal P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Ketoprofen USP, PCCA Special Micronized
% By Weight 100
CAS# 22071-15-4
Molecular Weight 254.28 g/mole
Chemical Formula C16H14O3
Synonym(s) 3-Benzoyl-alpha-methylbenzeneacetic acid; 2-(3-Benzoylphenyl)propionic acid; 2-(m-Benzoylphenyl)propionic acid; 3-Benzoylhydratropic acid; Benzeneacetic acid, 3-benzoyl-alpha-methyl; m-benzoylhydratropic acid

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ketoprofen USP, PCCA Special Micronized	22071-15-4	100	Not available	Not available

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Section 4: First-Aid Measures

Inhalation	If breathed in, move person into fresh air. If not breathing give artificial respiration. Seek immediate medical advice.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Symptoms/Effects	
Acute	Skin contact with chemical is toxic and causes skin irritation Eye contact causes eye irritation Toxic effects if swallowed
Delayed	Skin contact with chemical is toxic and causes skin irritation Eye contact causes eye irritation Toxic effects if swallowed

Immediate Medical Attention

Immediate medical attention is required. Treat symptomatically

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

Waterjet:- this may increase fire intensity.

Products of CombustionCarbon dioxide (CO₂) Carbon monoxide (CO)**Firefighters Special Equipment and Precautions**

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains Methods and material for containment and cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Information about fire - and explosion protection: Normal measures for preventive fire protection. Conditions for safe storage, including any incompatibilities: Storage: Requirements to be met by storerooms and receptacles: Store in a tightly closed container. Information about storage in one common storage facility: Keep away from incompatibles such as oxidizing agents Further information about storage conditions: Store in a tightly closed container.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Local exhaust ventilation required plus good work practice. Safety shower. Eye fountain.

Personal Protection

General protective and hygienic measures: Handle in accordance with good industrial hygiene and safety practice. Contaminated clothing should be thoroughly cleaned. Provide good ventilation and /or an exhaust system in the work area. Immediately remove all soiled and contaminated cloth. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Protection of hands: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles. Body protection: Protective work clothing

Section 9: Physical and Chemical Properties

Appearance	White to off-white crystalline powder.	pH	Not available.
Odor	Odorless.	Vapor Pressure	3.72E-07 mmHg at 25 C
Odor Threshold	Not available.	Vapor Density	at 22°C: 1.198 g/cm3
Melting Point	94 °C	Viscosity	Not available.
Freezing Point	Not available.	Evaporation Rate	Not available.
Boiling Point/Range	431.3 °C (at 760 mm Hg)	Autoignition temperature	Not available.
Decomposition temperature	Not available.	Flammability or Explosive Limits:	
Partition Coefficient: n-octanol/water	3.12 log POW	Lower	Not available.
Flash Point	147°C	Upper	Not available.
Flammability	Not available.		
Solubility(ies)	water at 25°C: 51 mg/1		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable.
Hazardous Polymerization	Corrosivity: Non-corrosive in presence of glass.
Conditions to Avoid	Keep away from excess heat. Protect from moisture. Stable under recommended storage condition
Incompatible Materials	Reactive with oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide and/or carbon dioxide.

Section 11: Toxicological Information

RTECS UE7570000

Acute Toxicity

Toxic if swallowed or in contact with skin. • LD/LC50 values relevant for classification: Oral LD5 62.4 mg/kg (rat) Derm : 550 mg/kg (mouse)

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Irritation

Causes serious eye irritation.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

In fertility studies, in rats, effects of ketoprofen on male and female reproduction functions were observed with a NOEL of 3 mg/kg/day

Routes of Entry

Ingestion. Skin.

Symptoms Related to Exposure

The test chemical causes erythema or other skin discoloration when tested in human. The test chemical causes erythema or other skin discoloration when tested in human.

Potential Health Effects

Not available

Target Organ(s) Not available.

Section 12: Ecological Information**Ecotoxicity**

Not available

Persistence and Degradability

Biodegradation in water: Half life= 15 days(predicted) Result: Readily biodegradable

Bioaccumulative Potential

Bioaccumulation factor: BEF=3.2(predicted) Result: Non-bioaccumulative

Mobility in Soil

Bioaccumulation factor: BEF=3.2(predicted) Result: Non-bioaccumulative

Other Adverse Effects

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

Section 13: Disposal Considerations**Waste Disposal**

Observe all federal, state, and local environmental regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal of Container

Disposal must be made according to official regulations

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

• ADR/RID class: 6.1 Toxic substances. • Danger code (Kemler): 60 UN-Number: 2811 • Packaging group: III • Hazard label: 6.1 • Description of goods: 2811 TOXIC SOLID, ORGANIC, N.O.S. (Ketoprofen) • Tunnel restriction code D/E

Section 15: Regulatory Information**Regulations**

Labeling according to Regulation (EC) No 1272/2008 The substance is classified and labeled according to the CLP regulation.

Other

WHMIS (Canada): CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). DSCL (EEC): R22- Harmful if swallowed. S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Section 16: Other Information

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 event shall Wuxue Xunda Pharmaceutical Co., Ltd 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 Wuxue Xunda Pharmaceutical Co., Ltd has been advised of the possibility of such damages.