



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ketoprofen

Product Details: Ketoprofen is a common NSAID, antipyretic and analgesic used in horses and other equines. It is also used as a mild painkiller in smaller animals, generally following surgical procedures. It is most commonly used for musculoskeletal pain, joint problems, and soft tissue injury, as well as laminitis. It is also used to control fevers and prevent endotoxemia. Ketoprofen is used as Anti-inflammatory; analgesic.

SECTION 2 – HAZARDOUS IDENTIFICATION

Hazard statements

H301 Toxic if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statements

P261: Avoid breathing dust/fume/gas/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
P321: Specific treatment (see on this label)
P405: Store locked up
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directive/ Ordinance on Hazardous Materials.

Code letter and hazard designation of product: Toxic

Safety phrases: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.



SECTION 3 – COMPOSITION AND INGREDIENTS

Name	CAS#	% by weight
Keptoprofen	2207 1-15-4	

Additional Information:

Molecular Formula: - C₁₆H₁₄O₃

Molecular Weight: - 254.28 g/mol

SECTION 4 – FIRST AID MEASURES

General information: Consult a physician. Show this safety data sheet to the doctor in attendance

After inhalation: If breathed in, move person into fresh air. If not breathing give artificial respiration. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

After eye contact: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Information for doctor: Treat symptomatically and supportively

The following symptoms may occur:

Eye contact: Inflammation of the eye is characterized by redness, watering, and itching.

Skin contact: Inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

SECTION 5 – FIRE/EXPLOSION DATA AND MEASURES

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry, chemical or carbon dioxide.

For safety reasons unsuitable extinguishing agents: Water jet: - this may increase fire intensity

Special hazards caused by the substance, its products of combustion or resulting gases:

Carbon dioxide (CO₂). Carbon monoxide (CO)

Protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Measures for environmental protection: Prevent further leaking or spillage if safe to do so. Do not let product enter drains.

Measures for cleaning/collecting: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.



Additional Information: Refer to section 8 and 13 for additional information on person protection equipment and disposal methods.

SECTION 7 – HANDLING AND STORAGE

Information 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.

Requirements to be met by storerooms and receptacles: Store in a cool place. Keep container tightly closed in a dry and well-ventilated place.

Information about storage in one common storage facility: Keep away from incompatibles such as oxidizing agents.

Further information about storage conditions: Store receptacle in a well ventilated area. Keep container tightly sealed.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Additional information about design of technical facilities: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Ingredients with limit values that require monitoring at the workplace: Not required.

General Protective and hygienic measures: Provide good ventilation and/or an exhaust system in the work area. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with 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: 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.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid (Crystalline powder)

Color: White to off-white

Odor: Odorless

Melting point/ Melting range: 93-97°C

Boiling point/Boiling Range: 431.3°C (at 760 mm Hg)

Flash point: 147°C



Danger of explosion: Product does not present an explosion hazard
Vapour pressure at 25°C: 3.32E-08 hPa
Density at 20°C: -----
Solubility in / Miscibility with water at 25°C: 0.5 mg/ml Insoluble.

SECTION 10 – STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: Keep away from excess heat. Protect from moisture. Stable under recommended storage condition.
Materials to be avoided: Incompatible with oxidizing materials.
Dangerous reactions: React with oxidizing materials. Carbon monoxide. Carbon dioxide.
Additional Information: Corrosivity: Non-corrosive in presence of glass.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Irritant: LD/LC50 values relevant for classification

	LD50	300 mg/kg (intraperitoneal) (mouse) 450 mg/kg (intravenous) (Guinea pig) 84 mg/kg (rectal) (rat)
Oral	LD50	62.4 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50 (8 hrs)	1000mg/litre (rat)

Primary irritant effect: on the skin: Irritant to skin and mucous membranes.
On the eye: Strong irritant with the danger of severe eye injury.
Sensitization: May by sensitizing.
Other information (about experimental toxicology): Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Harmful if swallowed.
Additional toxicological information: Toxic, Irritant.

SECTION 12 – ECOLOGICAL INFORMATION

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment: Not applicable.

SECTION 13 – DISPOSAL CONSIDERATIONS

Recommendation: Observe all federal, state, and local environmental regulations/
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
European waste catalogue: Wastes from the manufacture, Supply, Formulation and Use (MFSU) of pharmaceuticals.
Uncleaned packaging Recommendation: Disposal must be made according to official regulation.



SECTION 14 – TRANSPORTATION INFORMATION

Land transport ADR/RID (cross-border)

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. (Keptoprofen)

Tunnel restriction code D/E

Maritime transport IMDG

IMDG Class: 6.1

UN Number: 2811

Label: 6.1

Packaging group: III

EMS Number: F-A, S-A

Maritime pollutant: No

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Keptoprofen)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 6.1

UN/ID Number: 2811

Label 6.1

Packaging group: III

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S., (Keptoprofen)

UN “Model Regulation”: UN2811, TOXIC SOLID, ORGANIC, N.O.S. 6.1 III

SECTION 15 – OTHER REGULATORY INFORMATION

Chemical safety assessment: A Chemical Safety Assessment has not been carried out and shall be available at the time of REACH registration. A Chemical Safety Assessment has not been carried out.

Substances of very high concern (SVHC) according to REACH, Article 57: The substance is not listed as SVHC.