

Safety Data Sheet

#41476439 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Ketoprofen	22071-15-4	C16H14O3	10	18 Aug 2026

SECTION 1

Identification

Product name	Ketoprofen
CAS number	22071-15-4
Chemical formula	C16H14O3
Molecular weight	254.28
SMILES	<chem>O=C(O)C(C=1C=CC=C(C1)C(=O)C=2C=CC=CC2)C</chem>
EC / EINECS number	244-759-8
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

**DANGER**

CODE	HAZARD STATEMENT
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
Other hazards (e.g. PBT / vPvB, not classified)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	<i>Not applicable</i>

SECTION 4

First-aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
Symptoms / effects & medical attention	Treat symptomatically

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides (CO, CO ₂).
Advice for firefighters	Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6

Accidental release measures

Personal precautions & PPE	Wear recommended personal protective equipment. Evacuate unnecessary personnel. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.
Environmental precautions	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Containment & clean-up methods	On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	Avoid creating or spreading dust. Provide local exhaust or general room ventilation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage (incompatibilities)	Keep only in the original container in a cool, well ventilated place away from heat sources and direct sunlight. Keep container closed when not in use. Incompatible with strong oxidizing agents.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Chemical splash goggles Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Gloves: Nitrile Rubber, 0.11mm (480 mins).
Respiratory protection	Dust mask (FFP2/FFP3) Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Acid DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White to off-white. DERIVED FROM: LITERATURE
Odour	Odourless DERIVED FROM: LITERATURE
Melting / freezing point	93°C - 96°C DERIVED FROM: LITERATURE
Boiling point	431.3°C at 760mmHg DERIVED FROM: LITERATURE
Solubility (water)	Slightly soluble in water DERIVED FROM: LITERATURE
pH	No data available
Vapour pressure	No data available
Partition coefficient (log Pow)	No data available
Auto-ignition / decomposition temp	No data available

SECTION 10

Stability & reactivity

Chemical stability / reactivity	Stable under normal conditions. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed
Conditions to avoid	Heat sources, direct sunlight, sources of ignition.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides (CO, CO ₂). See section 5

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	LD50 Oral: Rat - 62.4mg/kg
Skin corrosion / irritation	Causes skin irritation.
Eye corrosion / irritation	Causes serious eye irritation.
Respiratory / skin sensitisation	<i>Not applicable</i>
Carcinogenicity	<i>Not applicable</i>
Mutagenicity	<i>Not applicable</i>
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT (single / repeated exposure)	May cause respiratory irritation.
Aspiration hazard	<i>No data available</i>
Endocrine disruptors	The substance/mixture does not contain components considered to have endocrine disrupting properties.

SECTION 12

Ecological information

Aquatic toxicity	Short-term (acute) aquatic hazard (Category 1), H400: Very toxic to aquatic life.
Persistence & degradability	<i>No data available</i>
Bioaccumulative potential	<i>No data available</i>
Mobility in soil	<i>No data available</i>
PBT / vPvB assessment	Does not meet PBT or vPvB criteria.

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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SECTION 14

Transport information

UN number	UN2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Class	6.1
Packing group	III
Transport category	2
Tunnel code	(E)
Packing instruction (ADR)	P002
Packing instruction (IMDG)	P002
Environmental hazards	Yes.
Special precautions for user	274, 614



SECTION 15

Regulatory information

REACH code	Y110
UFI code	<i>Not applicable</i>
ECHA notification	<i>Not applicable</i>
Chemical safety assessment carried out?	Not required

SECTION 16

Other information

Revision notes / other information	This MSDS replaces Version 1 dated 26.11.2019.
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