

## 1. IDENTIFICATION

<b>Product Name</b>	(R,S)-Ketoprofen acyl-β-D-glucuronide
<b>Catalogue Number</b>	KD102
<b>Recommended Use</b>	Laboratory research and development.
<b>Supplier</b>	Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada
<b>Emergency Phone No.</b>	+1-905-669-0017
<b>Email</b>	admin@synthose.com

## 2. HAZARD IDENTIFICATION

### Classification

Acute Toxicity, Oral (Category 3)  
Skin Corrosion / Irritation (Category 2)  
Serious Eye Damage / Eye Irritation (Category 2A)  
Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation (Category 3)

### Label Elements

#### Pictogram



#### Signal Word

Danger

#### 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/fumes/gas/mist/vapours/spray.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P271:	Use only outdoors or in a well-ventilated area.
P280:	Wear eye protection/face protection.
P301 + P310 + P330:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.
P312:	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313:	If skin irritation occurs: Get medical advice / attention.
P337 + P313:	If eye irritation persists: Get medical advice/attention.
P362:	Take off contaminated clothing and wash before reuse.
P403 + P233:	Store in a well ventilated place. Keep container tightly closed.
P405:	Store locked up.
P501:	Dispose of in accordance with local, regional, and/or federal regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	(R,S)-Ketoprofen acyl-β-D-glucuronide
<b>Synonym</b>	1-(3-Benzoyl-α-methylbenzeneacetate) β-D-glucopyranuronic acid
<b>CAS Number</b>	76690-94-3
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>22</sub> O <sub>9</sub>
<b>Molecular Weight</b>	430.41

Component	CAS Number	Concentration
(R,S)-Ketoprofen acyl-β-D-glucuronide	76690-94-3	100%

## 4. FIRST-AID MEASURES

<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin Contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice / attention. Take off contaminated clothing and wash before reuse.
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
<b>Most Important Symptoms and Effects, Acute and Delayed</b>	
Not determined	

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Not determined
<b>Special Protective Equipment and Precautions for Firefighters</b>	Not determined
<b>Specific Hazards Arising from the Hazardous Product</b>	
<b>Hazardous Combustion Products</b>	Carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or spray.
<b>Methods and Materials for Containment and Cleaning Up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel or soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid breathing dust/fumes/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear eye protection/face protection.
<b>Conditions for Safe Storage</b>	Store at 0 to -20 °C. Store in a well ventilated place. Keep container tightly closed. Store locked up.
<b>Incompatible Materials</b>	Not determined

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Occupational Exposure Guidelines</b>	Not determined
<b>Appropriate Engineering Controls</b>	Use mechanical exhaust or laboratory fume hood to avoid exposure.
<b>Individual Protection Measures / Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Wear safety glasses with side-shields, chemical safety goggles, or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin Protection</b>	Handle with gloves. Wear long-sleeved lab coat. Do not wear open-toed shoes.
<b>Respiratory Protection</b>	Use particle respirator for nuisance exposures. For greater protection, use half or full face mask respirator with cartridges. Respiratory equipment should be tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White Amorphous Solid	<b>Flammable/Explosive Limits</b>	Not determined
<b>Odour</b>	Not determined	<b>Vapour Pressure</b>	Not determined
<b>Odour Threshold</b>	Not determined	<b>Vapour Density</b>	Not determined
<b>pH</b>	Not determined	<b>Relative Density</b>	Not determined
<b>Melting Point</b>	Not determined	<b>Solubility</b>	DMSO, MeOH
<b>Boiling Point</b>	Not determined	<b>Partition Coefficient log K<sub>OW</sub></b>	Not determined
<b>Flash Point</b>	Not determined	<b>Auto-ignition Temperature</b>	Not determined
<b>Evaporation Rate</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flammability (solid, gas)</b>	Not determined	<b>Viscosity</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	None expected under normal conditions of storage and use
<b>Conditions to Avoid</b>	Open flames, sparks, static discharge, excessive heat
<b>Incompatible Materials</b>	Not determined
<b>Hazardous Decomposition Products</b>	
<b>Formed under Fire Conditions</b>	Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure</b>	Ingestion, Skin Contact, Eye Contact, Inhalation
<b>Acute Toxicity, Oral</b>	Toxic if swallowed ATE Oral (mg/kg) - 100
<b>Skin Corrosion / Irritation</b>	Causes skin irritation
<b>Serious Eye Damage / Eye Irritation</b>	Causes serious eye irritation
<b>Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation</b>	May cause respiratory irritation

## 12. ECOLOGICAL INFORMATION

Not determined

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and/or federal regulations.  
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 14. TRANSPORT INFORMATION

<b>UN Number</b>	UN2811
<b>Proper Shipping Name</b>	Toxic solids, organic, n.o.s. ((R,S)-Ketoprofen acyl-β-D-glucuronide)
<b>Hazard Class</b>	6.1
<b>Packing Group</b>	III
<b>Exempted Quantity</b>	Packagings of up to 1g in a total shipment of 100g

## 15. REGULATORY INFORMATION

<b>Canada DSL / NDSL</b>	The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.
<b>USA TSCA</b>	Negative Certification

## 16. OTHER INFORMATION

<b>Latest Revision</b>	2020-10-21
<b>Abbreviations</b>	

<b>ATE</b>	Acute Toxicity Estimate	<b>DSL</b>	Domestic Substances List
<b>K<sub>OW</sub></b>	Concentration in octanol phase / Concentration in aqueous phase	<b>NDSL</b>	Non-Domestic Substances List
<b>LC<sub>50</sub></b>	Median Lethal Concentration	<b>TSCA</b>	Toxic Substances Control Act
<b>LD<sub>50</sub></b>	Median Lethal Dose	<b>IATA</b>	International Air Transport Association
<b>TDLo</b>	Lowest Known Toxic Dose	<b>IMDG</b>	International Maritime Dangerous Goods
<b>EC<sub>50</sub></b>	Half Maximal Effective Concentration	<b>ADR</b>	Agreement concerning the International Carriage of Dangerous Goods by Road
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances		