



Safety Data Sheet

SDS No.:
SDS-P/L-B/02

Bezorol 40 SL

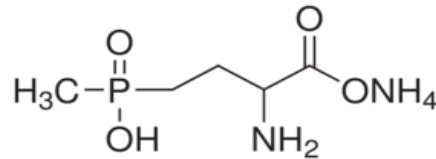
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Section 1: Identification of the Hazardous Chemical and of the Supplier

1.1 Product Identifier

Product Name: Glufosinate Ammonium 40% SL
Trade Name: Bezorol 40 SL
Active Ingredient: Ammonium (2RS)-2-amino-4-(methylphosphinato)butyric acid
CAS No.(AI): 77182-82-2
Structural Formula:



Recommended Usage: Herbicide

1.2 Supplier's Information

Address: Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8
Taman Perindustrian Perai
13600 Perai, Pulau Pinang
Malaysia
Tel.: +6-04-3907988
Fax: +6-04-3905703
Web: www.agrichem.com.my
Emergency Phone: +6-04-3907988

Section 2: Hazard Identification

Classification: Skin irritation: Category 2
Serious eye damage: Category 1

Pictogram:



Signal Word: Danger

Hazard Statement:
H315: Causes skin irritation.
H318: Causes serious eye damage.

Precautionary Statement:
P264: Wash face and hands thoroughly after handling.



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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

Section 3: Composition and Information of the Ingredients of the Hazardous Chemical

Component	CAS No.	Weight, %	Hazard Code
Glufosinate ammonium	77182-82-2	40	-
Adjuvant	-	5 to < 10	H315, H318
Antifoam	-	< 0.10	H302, H317

Section 4: First-aid Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Take off contaminated clothing and wash before reuse. Wash face and hands thoroughly after handling. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Drink 1 or 2 glasses of water and induce vomiting by touching back throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Symptoms: No data available.

Notes to Physician: Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: Dry chemical, CO₂, or water spray for small fire. For large fire use foam or water.

Specific Hazard During Fire: No data available.



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Special Protective Equipment: Fire fighters should wear full-faced self contained breathing apparatus and protective clothing. Keep upwind. Isolate hazard area. Avoid inhalation of smoke and fumes. Use water or foam to reduce fumes. Move containers from fire area if without risk. Cool containers with water from maximum distance.

Section 6: Accidental Release Measures

Personal Precautions: Do not handle until all safety precautions have been read and understood. Wear appropriate protective equipment as per required.

Environmental Precautions: Avoid release to the environment.

Method for Cleaning Up: Wear protective clothing as indicated in Section 8. Evacuate non essential personnel. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

Section 7: Handling and Storage

Precautions for Safe Handling: Wear protective gloves/protective clothing/eye protection/face protection. Wash face and hands thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.

Conditions for Safe Storage: Keep in original container, tightly closed, in a cool dry and well-ventilated place, out of reach of children. Keep away from food, drink and animal feeds. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Store locked up.

Incompatibles: No data available.

Section 8: Exposure Control and Personal Protection

Exposure Limit: Not specified

Engineering Control: Handle only in ventilated area.

Individual Protection Measure: Avoid inhalation. Always wash hands thoroughly before eating or drinking. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin and eyes.

Personal Protective Equipment:

Eye Protection: Wear safety goggles or face shield.



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Skin Protection: Wear suitable protective clothing, impermeable rubber gloves (such as neoprene or PVC) and boots.

Respiratory Protection: Wear suitable respiratory equipment. In case of spill, leak, or emergency, use approved chemical cartridge-type respirator.

Section 9: Physical and Chemical Properties

Appearance: Brownish yellow transparent liquid

Odour: Characteristic odour

Odour Threshold: No data available

pH: No data available

Melting/Freezing Point: 216.5 °C (technical)

Initial Boiling Point: No data available

Boiling Range: No data available

Flash Point: No data available

Evaporation Rate: No data available

Flammability: No data available

Upper Flammability Limit: No data available

Lower Flammability Limit: No data available

Vapour Pressure: 3.10×10^{-2} mPa at 25°C (technical)

Vapour Density: No data available

Relative Density: No data available

Solubility in Water: Soluble in water

Partition Coefficient $P_{o/w}$: No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Section 10: Stability and Reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Stable under normal condition

Hazardous Reaction: No data available

Condition to Avoid: Avoid extreme heat

Incompatible Material: No data available

Hazardous Decomposition Product: No data available

Section 11: Toxicological Information

11.1 Acute Toxicity

Component: Glufosinate Ammonium Technical

Ingestion, Oral LD ₅₀ :	
Rat (female)	3000 mg/kg



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Skin Contact, Dermal LD ₅₀ :	
Rat (male/female)	> 2000 mg/kg
Component: Antifoam	
Ingestion, Oral LD ₅₀ :	1200 mg/kg

11.2 Chronic Effect from Short and Long Term Exposure

Skin Contact:	Causes skin irritation
Eye Contact:	Causes serious eye damage
Inhalation:	No data available
Ingestion:	No data available
Carcinogenicity:	No data available
Mutagenicity:	No data available
Teratogenicity:	No data available

11.3 Symptoms No data available

Section 12: Ecological Information

Ecotoxicity:

Component: Glufosinate Ammonium Technical

Aquatic Toxicity:	
Fish (Rainbow trout), LC ₅₀ (96h)	710 mg/l
Fish (Carp, bluegill sunfish, golden orfe), LC ₅₀ , (96h)	> 1000 mg/l
Daphnia, LC ₅₀ , (48h)	560-1000 mg/l
Algae (<i>Scenedesmus subspicatus</i>), EC ₅₀	1000 mg/l
Algae (<i>Selenastrum capricornutum</i>), EC ₅₀	37 mg/l

Persistence and Degradability:	No data available
Bioaccumulative Potential:	No data available
Mobility in Soil:	No data available
Other Adverse Effect:	No data available

Section 13: Disposal Information

Dispose of contents/container to Kualiti Alam / authorized body by DOE.

Section 14: Transportation Information

Land (ADR/RID)	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S.
Hazard Class	6.1
Hazchem Code	-



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UN number	2902
Packing Group	III
Label / Mark	6
Sea (IMDG)	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S.
Hazard Class	6.1
UN Number	2902
Packing Group	III
Marine Pollutant	-
Label	6
Transport Document Name	-
Air (IATA)	
Proper Shipping Name	Pesticide, Liquid, Toxic, N.O.S.
Hazard Class	6.1
UN number	2902
Packing Group	III
Label / Mark	6
Transport Document Name	-

Section 15: Regulatory Information

Classification: Skin irritation: Category 2
Serious eye damage: Category 1

Signal Word: Danger

Pictogram:



Pesticides Act: -
Classification: -

Section 16: Other Information

Date of Preparation: 22 July 2015
Date of Revision: -
Reference Document: ICOP on Chemicals Classification and Hazard Communication 2014
GHS Purple Book
MSDS: Bezorol 40 SL, Date of preparation: 31 May 2013

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.