

Section 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
Product Identifier

Product Name: GLYMAX 540

Product Code: 211-03

PCPA Registration No.: 35747

Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Herbicide

Restrictions on use: See product label for restrictions

Details of the supplier of the safety data sheet

Company: Life Scientific (Canada) Inc.
525-8th Avenue S.W., 43rd Floor
Eighth Avenue Place East
Calgary, Alberta T2P 1G1

Telephone: 403-498-6623
Email: info@lifescientific.com
Web: www.lifescientific.com

Emergency contact information

In case of Emergency: 1-800-424-9300

Section 2. HAZARD IDENTIFICATION
DANGER

Causes serious eye damage. (H318)
Causes mild skin irritation. (H316)
Harmful to aquatic life with long lasting effects. (H412)
May cause cancer. (H350)


HAZARD CLASSIFICATION
Health Hazards

Serious Eye Damage
Skin Irritation
Carcinogenicity

Category

1
3
1B

Physical Hazards

None

Category

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Environmental Hazards

Hazardous to the aquatic environment – short-term (acute)
Hazardous to the aquatic environment – long-term (chronic)

Category

3
3

HAZARDS NOT REQUIRING CLASSIFICATION

None

PRECAUTIONARY STATEMENTS

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Read label before use. (P103)

Keep container tightly closed. (P233)

Avoid release to the environment. (P273)

Wear protective gloves, protective clothing, eye protection/face protection. (P280)

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

IF exposed or concerned: Get medical advice/attention. (P308 + P313)

Immediately call a POISON CENTER or doctor. (P310)

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

Dispose of contents/container in accordance with local/national/international regulations. (P501)

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (% w/w)
Glyphosate potassium	39600-42-5	30-60
Amines, tallow alkyl, ethoxylated	61791-26-2	1-5
Ethanol, 2,2'-iminobis-, N-coco alkyl derivs.	61791-31-9	1-5

Section 4. FIRST AID MEASURES

Description of first aid measures

General advice:	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove source of exposure or move person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.
Eye Contact	Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.
Skin Contact	Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use or discard.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable	Dry chemical, foam, carbon dioxide, water spray, fog or alcohol-resistant foam.
Unsuitable	High volume water jet.

Advice for firefighters

Specific hazards arising from the chemical	Fire will produce irritating and corrosive gases. Runoff may pollute waterways.
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Flash point: No data available

Auto-ignition temperature: No data available.

Explosion data

Sensitivity to mechanical impact No data available.

Sensitivity to static discharge No data available.

Special protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus and full turnout gear.

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Emergency Procedure: Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Protective Equipment: Wear chemical protective clothing and positive pressure self-contained breathing apparatus (SCBA).

Personal Precautions: Avoid breathing vapor or mist. Do not get on skin, eyes or clothing.

Methods and materials for containment and cleaning up

Spill Cleanup: Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Section 7. HANDLING AND STORAGE

Handling:

Wash hands after use. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Do not get in eyes, on skin, or on clothing. Eyewash stations and showers should be available in areas where this material is used and stored.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Do not store this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls

Showers
Eyewash stations

	Ventilation systems
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin Protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Form:	Liquid
Colour:	Blue
Odour:	Odourless

Chemical properties

pH (1% w/w):	4.7
Boiling point (°C):	Data not available
Melting point (°C):	Data not available
Flash Point:	Data not available
Oxidising properties:	Data not available
Explosive properties:	Data not available
Density (at 20°C):	1.35 g/cm ³
Viscosity (Dynamic):	62 mPa(s)
Solubility in water:	Data not available

Other Information

None.

Section 10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	May produce hydrogen gas if this product comes into contact with galvanized steel or unlined steel.
Conditions to avoid:	Avoid heat, sparks, flame, high temperature and contact with incompatible materials.
Incompatible materials:	Strong bases, acids, and oxidizing agents, galvanised steel, carbon steel, unlined mild steel
Hazardous decompositions products:	None known based on information supplied.

Section 11. TOXICOLOGICAL INFORMATION

Exposure Routes	Skin contact, eye contact, inhalation, ingestion
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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

Acute Toxicity
Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATE_{mix} (oral) >5000 mg/kg
ATE_{mix} (dermal) >5000 mg/kg
ATE_{mix} (inhalation-dust/mist) >20 mg/l

Component Information

Chemical name	Oral	Dermal	Inhalation
Glyphosate 1071-83-6	LD50 (rat): > 2000 mg/kg	--	--
Amines, tallow alkyl, ethoxylated 61791-26-2	LD50 (rat): = 500 mg/kg	--	--

Skin corrosion/irritation Causes mild skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Glyphosate potassium 39600-42-5	-	Group 2A – Probably carcinogenic to humans	-	Present

Reproductive toxicity No information available.

STOT – single exposure No information available.

STOT – repeated exposure No information available.

Aspiration hazard No information available.

Section 12. ECOLOGICAL INFORMATION
Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glyphosate 1071-83-6	EC50: 208mg/L (14d, <i>Myriophyllum spicatum</i>) EC50: > 36.0 mg/L (7d, <i>Lemna gibba</i>)	LC50: > 100 mg/L (96h, <i>Oncorhynchus mykiss</i>) NOEC: = 2.804 mg/L (85d, <i>Oncorhynchus mykiss</i>)	LC50: = >10 mg/L (96h, <i>Chironomus plumosus</i>) NOEC: = 744 mg/L (28d, <i>Chironomus riparius</i>)	EC50: = >40 mg/L (48h, <i>Daphnia magna</i>) NOEC: 12.5 mg/L (21d, <i>Daphnia magna</i>)
Amines, tallow alkyl, ethoxylated 61791-26-2	--	LC50: = 1.3 mg/L (96h, <i>Lepomis macrochirus</i>)	--	EC50: 2.35 mg/L (48h, <i>Daphnia pulex</i>) EC50: 0.42 mg/L (48h, <i>Ceriodaphnia dubia</i>)

Persistence and Degradability No information available.

Bioaccumulative Potential No information available.

Mobility in Soil No information available.

Other Adverse Effects No information available.

Section 13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION

TDG	Not Regulated
IMDG	Not Regulated
IATA	Not Regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15. REGULATORY INFORMATION
Safety, health and environmental regulations/legislation specific for the substance or mixture
International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

Section 16. OTHER INFORMATION
Abbreviations and acronyms:

ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS No.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
GHS	Globally harmonized system
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC50	Lethal concentration to 50% of a test population
LD50	Lethal dose to 50% of a test population (median lethal dose)
NOEC	No observed effect concentration
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
PPE	Personal protective equipment
SDS	Safety data sheet
STOT RE	Specific target organ toxicity – repeated exposure
STOT SE	Specific target organ toxicity – single exposure

TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organization

NFPA 704 (National Fire Protection Association):

Health - 4 Flammability - 0 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 4 Flammability - 0 Physical Hazard - 0 PPE – X

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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GLYMAX 540 ® - trademark pending, Life Scientific Inc.

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