



SAFETY DATA SHEET

GALLEX®

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: GALLEX®

EPA REGISTRATION NUMBER: 40230-2

EPA SIGNAL WORD: WARNING

CA REGISTRATION NUMBER: 51896-CA-050

DATE: 1 August 2013

SUPERSEDES DATE: 24 June 2013

MANUFACTURER: AgBioChem, Inc.

ADDRESS: 3750 N 1020 E
Provo, UT 84604

24/7 EMERGENCY PHONE: 1-800-633-8253 (Professional Emergency Response Services)

24/7 HEALTH EMERGENCIES: 800-858-7378 (National Pesticide Information Center)

SECTION II - HAZARDS IDENTIFICATION



GHS:

GHS SIGNAL WORD: DANGER

Keep away from ignition sources. Keep out of reach of children.

The product may be harmful if it is inhaled or swallowed. Avoid contact with eyes.

POTENTIAL HEALTH EFFECTS

CODE OF HAZARD STATEMENTS

Physical hazards

H226, Flammable (Combustible) liquid and vapour

Health Hazards

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H320, Causes eye irritation.

H336, May cause drowsiness or dizziness.

H315, Causes skin irritation.

H333, May be harmful if inhaled.

Environmental hazards

H402, Harmful to aquatic life.

CODE OF PRECAUTIONARY STATEMENTS

General

P101, Keep out of reach of children. P103, Read label before use.

Prevention

P210, Keep away from heat/sparks/open flames/hot surfaces. NO SMOKING.

P233, Keep container tightly closed.

P234, Keep only in original container.

P242, Use only non-sparking tools.

P261, Avoid breathing breathing fume/gas/mist/vapour spray.

P262 Do not get in eyes, on skin or on clothing.

P264, Wash thoroughly after handling.

P270, Do not eat, drink or smoke when using this product.

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

Response

P312, Call a POISON CENTER or doctor/physician if you feel unwell.

P331, DO NOT induce vomiting.

P340, Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P352, Wash with plenty of soap and water.

P362, Take off contaminated clothing and wash before reuse.

P381, Eliminate all ignition sources if safe to do so.

Storage

P403, Store in a well-ventilated area.

P412, Do not expose to temperatures exceeding 49 °C/120.2 °F.

ROUTES OF ENTRY: Eye contact, skin adsorption, ingestion and inhalation.

CARCINOGENICITY: Naphthalene is a suspected carcinogen and kerosene has residual naphthalene.



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SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #.	EINECS #	%	REACH Reg.
Meta-cresol	108-39-4	203-577-9	0.466	Yes
2,4-xylenol	105-67-9	203-321-6	0.463	No
Kerosene	8008-20-6	232-366-4	57.67	No
Water	7732-18-5	231-791-2	25.90	No
Prop. A	Prop.	Prop.	8.25	Yes
Prop. B	Prop.	Prop.	3.25	Yes
Diphenyl methane	101-81-5	202-979-6	2.00	No
Dimethyl naphthalene	571-58-4	209-335-9	2.00	No

Note! Prop. A and Prop. B are proprietary emulsifiers

SECTION IV - FIRST AID MEASURES

INHALATION: Move to fresh air free from risk of further exposure. If person not breathing call 9-1-1, then apply rescue breathing. Seek medical attention as soon as possible.

EYE CONTACT: Flush with clean, lukewarm water raising upper and lower eyelids at low pressure for 15 minutes. Remove contact lenses, if present, after the first five minutes and continue to rinse the eyes. Seek medical attention if no relief.

SKIN CONTACT: Rinse area with clean water for 15-20 minutes. Call poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. DO NOT INDUCE VOMITING. Lower the head when person is vomiting to minimize entry into throat and lungs.

SECTION V - FIREFIGHTING MEASURES

FLASHPOINT AND METHOD: > 49 °C (> 120.2 °F) **FLAMMABLE LIMITS:** LEL 0.7% UEL 5.0%

EXTINGUISHING METHOD: Use dry chemicals, carbon dioxide and foam.

FIRE OR EXPLOSION HAZARDS: This material under complete combustion will form oxides of carbon and nitrogen.

SPECIAL FIREFIGHTING PROCEDURES: Keep upwind of fire. Full emergency equipment with self-contained breathing apparatus and full protective clothing to be worn by firefighters.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Wear PPE. Isolate the area and prevent material from getting into waterways. Eliminate ignition sources.

Sweep up and place the collected material in a closed container. Take care as material may form vapour in the containers and be flammable/combustible.

Finish cleaning the area with small amounts of soap and water on the spill area.

SECTION VII - HANDLING AND STORAGE

STORAGE TEMPERATURE: Keep containers tightly closed. Store in well-ventilated area. Avoid high temperatures.

SPECIAL SENSITIVITY: Avoid contact with eyes, wear PPE in section 8.

HANDLING AND STORAGE PRECAUTIONS: Use normal safety procedures and good personal hygiene. Wash thoroughly after use and before eating, drinking, chewing gum or using tobacco.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses or goggles, keep out of eyes.

SKIN PROTECTION: Wear long sleeve shirts, long pants and shoes and socks.

RESPIRATORY PROTECTION: Not normally required, however wear respirator if the airborne conditions mandate.

OCCUPATIONAL EXPOSURE LIMITS: ACGIH 200 mg/m² for kerosene. OSHA is 50m/m³ for naphthalene.

ENGINEERING CONTROLS: Provide adequate ventilation when product is used.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Off white liquid.

ODOUR: Petroleum distillate odour

SOLUBILITY IN WATER: Not soluble

FLASH POINT: > 49 °C (> 120.2 °F)

VOLATILE ORGANIC CONTENT (VOC): > 90%

SOLUBILITY (WATER): Not soluble.



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SPECIFIC GRAVITY (water=1): > 0.78 @ 68 °F (20 °C) **BOILING POINT:** 300-500 °F (149-304 °C)

SECTION X - REACTIVITY

STABILITY: Product is flammable/combustible liquid, keep away from ignition sources.
INCOMPATIBLES: Strong oxidizers.
DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon and nitrogen.

SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Acute oral LD_{50(rat)}=4640 mg/kg
Harmful if swallowed, causes nausea, vomiting and diarrhea. This product may impact the central nervous system similar to alcohol intoxication. The significant route of exposure is the eyes.
The product may be harmful to aquatic organisms.

SECTION XII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Wear required PPE to dispose of the material according to label instructions for pesticide and container disposal. Dispose according to the regulations of local, state and Federal regulatory agencies.

SECTION XIII - TRANSPORTATION INFORMATION

US DOT (ground) PROPER SHIPPING DESCRIPTION: (NON-BULK): Not regulated for ground or rail in containers less than 119 gallons exception in 49 CFR 173.150(s)
(Bulk containers only): NA1993, Combustible liquid, N.O.S., (Kerosene, diphenyl methane), 3, III
IATA (air) PROPER SHIPPING DESCRIPTION CARGO AIRCRAFT Only: UN1993, Flammable liquid, N.O.S., (Kerosene, diphenyl methane), 3, III
Use packing instruction 310, maximum net capacity is 220 L (58.2 gals)
IMO (water) PROPER SHIPPING DESCRIPTION: UN1993, Flammable liquid, N.O.S., (Kerosene, diphenyl methane), 3, III
Use packing instruction P001 and LP01.

SECTION XIV - REGULATORY INFORMATION

OSHA STATUS: Flammable/combustible. **TSCA STATUS:** Kerosene and naphthalene.
CERCLA REPORTABLE QUANTITY: Meta-cresol and Naphthalene (45.5 kg (100 lbs)).
CALIFORNIA PROPOSITION 65: Naphthalene is listed as cancer causing chemical.
RCRA STATUS: None.
SARA 311/312 HAZARD NOTIFICATION/REPORTING
IMMEDIATE Y FIRE Y SUDDEN RELEASE OF PRESSURE N
DELAYED Y REACTIVE N
SARA TITLE III: None.
SECTION 302 EXTREMELY HAZARDOUS: None.
SECTION 313 TOXIC CHEMICALS: Meta-cresol.
RIGHT TO KNOW: Kerosene is listed in MA, NJ and PA. Naphthalene is listed in CA, MA, MN, NJ and PA.

SECTION XV – OTHER INFORMATION/APPROVALS

National Fire Protection Association (NFPA)			
Hazardous Materials Identification System (HMIS)			
	NFPA		HMIS
		0 Least	
2	Health	1 Slight	2 Health
2	Flammability	2 Moderate	2 Flammability
0	Instability	3 High	0 Reactivity
		4 Severe	F PPE

RISK PHRASES: R10, Flammable, R22, Harmful if swallowed; R36, Irritating to eyes; R45-May cause cancer; R52-Harmful to aquatic organisms.

SAFETY PHRASES: S2, Keep out of reach of children; S25, Avoid contact with eye; S36, Wear suitable protective clothing; S39, Wear eye/face protection; S61, and Avoid release to the environment.

SECTION XVI – ABBREVIATIONS /DISCLAIMER

REASON FOR ISSUE: New International ANSI Z400 format, GHS compliance and REACH compliance.



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EUROPEAN COMMUNITY:   

WHMIS:  

APPROVAL DATE: 3 Augus 2013

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ABBREVIATIONS:

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|------------------|--|------------------|--|
| CAS # | Chemical Abstract Service Number | EINECS | European Inventory of existing Commercial Chemical Sales |
| °C | Celsius temperature scale | °F | Fahrenheit temperature scale |
| Prop. | Proprietary | PE | Personal Protective Equipment |
| TLV | Threshold Limit Value | TWA | Time Weighted Average |
| STEL | Short-term Exposure Limit | PEL | Permissible Exposure Limit |
| OSHA | Occupational Safety & Health | NIOSH | National Institute of Safety & Health |
| NFPA | National Fire Protection Agency | WHMIS | Workplace Hazardous Materials Information System |
| NTP | National Toxicology Program | IARC | Int. Agency for Research on Cancer |
| RCRA | Resource Conservation Recovery ACT | TSCA | Toxic Substance Control Act |
| LC ₅₀ | Lethal Inhalation Concentration | EC ₅₀ | Effective Dose |
| CAS | Chemical Abstract Service Number | LD ₅₀ | Lethal Dose |
| UEL | Upper explosive limit | LEL | Lower explosive limit |
| ND | Not determined | NDA | No Data Available |
| NA | Not Applicable | NE | None established |
| ≥ | Greater Than or Equal To | ≤ | Less Than or Equal To |
| Prop. | Proprietary | CNS | Central Nervous System |
| CI | China | DSL | Canada |
| ECL | Korean Existing Chemicals List | EEC | European Economic Commission |
| ENCS | Japanese Existing and New Chemical List | MAC | Netherlands |
| EU | European Union | MITI | Japan |
| MAK | Germany | SWISS | Giftliste 1 |
| PICCS | Philippines | USA | United States |
| UK | United Kingdom | | |
| VOC | Volatile organic content | | |
| ACGIH | American Conference of Government Industrial Hygienists | | |
| SARA | Superfund Amendments and Reauthorization Act | | |
| AICS | Australian Inventory of Chemical Substances | | |
| IARC | International Agency for Research on Cancer | | |
| Taiwan | List of Toxic Chemical Substances regulated under Taiwan Toxic Chemical Substances Control Act of 1086 | | |

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