


SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
TRADE NAME: GSL-4®/Gasoline Additive

DATE: 2 June 2013

SUPERSEDES DATE: 16 May 2013

REVISION #: 4.1.1

MANUFACTURER: ENERGY ADDITIVES, INC.

ADDRESS: 117 Lillie Ave.
Battle Creek, MI, USA 49015

24/7 EMERGENCY PHONE: INFOTRAC 800-535-5053 Call collect internationally 352-323-3500

24/7 HEALTH EMERGENCIES: 800-222-1222 National Poison Control Center

SECTION 2 - HAZARDS IDENTIFICATION
GHS Pictograms:

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 liquid and Vapor

Health Hazards

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

H315, Causes skin irritation.

H320, Causes eye irritation.

H333, May be harmful if inhaled.

H336, May cause drowsiness or dizziness,

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/Vapor 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 50 °C/122 °F.

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

CARCINOGENICITY: Prop. B is a suspected carcinogen and petroleum distillates have residual naphthalene and benzene that are carcinogens.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	EINECS #	%	Reach Reg. #
Petroleum distillate	64742-88-7	265-191-7	35-50	Yes
Solvent, naphtha heavy aromatic	64742-94-5	265-198-5	15-20	Yes
Prop. A (Hydrocarbon)	Prop.	Prop.	5-10	No
Prop. B (Hydrocarbon)	Prop.	Prop.	3-10	Yes
Prop. C (Organic ring structure)	Prop.	Prop.	4-10	No
Xylenes	1330-70-7	215-535-7	2-6	Yes
Prop. D (Organic alcohol)	Prop.	Prop.	1-2	Yes
Prop. E (Organic acid)	Prop.	Prop.	1-2	No
Prop. F (Calcium organic salt)	Prop.	Prop.	1-2	No
Prop. G Hydrocarbon)	Prop.	Prop.	1-2	Yes
Prop. H (Organic acid)	Prop.	Prop.	1-2	Yes

SECTION 4 - 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 5 - FIREFIGHTING MEASURES

FLASHPOINT AND METHOD: 109°F (42.7 °C)

FLAMMABLE LIMITS: LEL = 1.0 UEL = 6.0

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 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Wear PPE product is flammable. Keep away from sources of ignition. Avoid breathing vapour or mist. Isolate the area and prevent material from getting into waterways.

Absorb with vermiculite, sand or other inert absorbent and place the collected material in a closed container. Use non-sparking tools.

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

SECTION 7 - HANDLING AND STORAGE

STORAGE TEMPERATURE: Keep containers tightly and keep in cool dry area. Provide a cool well-ventilated area.

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

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Use safety glasses or goggles, there is potential for vapour or mist exposure to cause severe injury to the eyes.

SKIN PROTECTION: Wear chemical resistant glove (Nitrile.) Wear long sleeve shirts, long pants and shoes and socks.

RESPIRATORY PROTECTION: Wear respirator if the airborne conditions result in an aerosol forming.

OCCUPATIONAL EXPOSURE LIMITS: Petroleum distillates OSHA PEL TWA 400 ppm and xylenes 100 ppm.

ENGINEERING CONTROLS: Provide adequate ventilation when product is used. Eyewash and shower should be provided in mixing and loading areas.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid.

COLOUR: Red Light

ODOUR: Solvent odour.

pH: NA

SOLUBILITY IN WATER: Not Soluble

FLASH POINT: 109 °F (42.7 °C)

VOLATILE ORGANIC CONTENT (VOC): 90%

SOLUBILITY (WATER): Not soluble.

SPECIFIC GRAVITY (water=1): 0.777 @ 68 °F (20 °C)

BOILING POINT: 318-356 °F (159-180 °C)

SECTION 10 - REACTIVITY

STABILITY: This product is stable material under normal conditions of storage and handling.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Ignition sources.

INCOMPATIBLES: Avoid strong oxidizing agents, acids and bases, and selected amines.

DECOMPOSITION PRODUCTS: Product will burn and the products of complete combustion are oxides of carbon and nitrogen.

SECTION 11 - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Oral LD₅₀ (rat) = 813 mg/kg

LC₅₀ (rat) = 700 mg/L (4-hr test)

The significant routes of exposure are eyes, skin, ingestion and inhalation.

Xylene is a know carcinogen.

SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This material is a liquid, wear PPE as outlined in Section VIII.

Dispose according to the regulations of local, state and Federal regulatory agencies.

SECTION 13 - TRANSPORTATION INFORMATION**US DOT (ground) SHIPPING DESCRIPTION:**

UN1268, Petroleum distillates, N.O.S., (Mineral spirits, xylenes), 3, III

IATA (air) SHIPPING DESCRIPTION: CARGO AIRCRAFT ONLY

UN1268, Petroleum distillates, N.O.S., (Mineral spirits, xylenes), 3, III

Use packing instruction 310, container capacity is 58.15 gallons (220 liters)

IMO (water) SHIPPING DESCRIPTION:

UN1268, Petroleum distillates, N.O.S., (Mineral spirits, xylenes), 3, III

Use packing instructions P001 and LP01.

SECTION 14 - REGULATORY INFORMATION

OSHA STATUS: Flammable

UN Number: 1268

Hazard Class: 3

TSCA STATUS: Petroleum distillates.

CERCLA REPORTABLE QUANTITY: Xylenes (100 lbs/220 kg).

CALIFORNIA PROPOSITION 65: None.

RCRA STATUS: Not regulated under RCRA

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 311/312 HAZARD CATEGORIES: None.

SECTION 313 TOXIC CHEMICALS: Xylene.

RIGHT TO KNOW; Mineral spirits and xylenes are listed in CA, FL, ME, MN, NJ and PA.

EUROPEAN COMMUNITY:   

WHMIS: Class B3  Class D-2A 

SECTION 15 – OTHER INFORMATION/APPROVALS

National Fire Protection Association (NFPA)

Hazardous Materials Identification System (HMIS)

NFPA

HMIS

	0 Least		
1 Health	1 Slight	1	Health
2 Flammability	2 Moderate	2	Flammability
0 Instability	3 High	0	Reactivity
	4 Severe	H	PPE

RISK PHRASES: R10, Flammable; R20, Harmful by inhalation; R21, Harmful in contact with skin; R22, harmful if swallowed; R34, Causes burns; R36, Irritating to eyes; R65, Harmful: may cause lung damage if swallowed; and R67, Vapours may cause drowsiness and dizziness.

SAFETY PHRASES: S2, keep out of reach of children; S3, Keep in cool place; S9, Keep container in a well-ventilated place; S23, Do not breathe vapours; S24, Avoid contact with skin; S25, Avoid contact with eye; S36, Wear suitable protective clothing; S37, Wear suitable gloves; S38, In case of insufficient ventilation, wear suitable respiratory equipment; S39, Wear eye/face protection; and S62, If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

SECTION 16 – ABBREVIATIONS /DISCLAIMER

REASON FOR ISSUE: Addition to Section14, UN number and hazard class.

APPROVAL DATE: 3 June 2013

PREPARED BY: Dennis Belau
DBelau@comcast.net

REVIEWED BY Lloyd Lack

ABBREVIATIONS:

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

SAFETY DATA SHEET**GSL-4®/GASOLINE FUEL ADDITIVE**

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
EC ₅₀	Effective Dose	LC ₅₀	Lethal Concentration
LD ₅₀	Lethal Dose	CAS	Chemical Abstract Service Number
LEL	Lower explosive limit	UEL	Upper explosive limit
NDA	No Data Available		Number
ND	Not determined	NE	None established
NA	Not Applicable	≤	Less Than or Equal To
≥	Greater Than or Equal To	CNS	Central Nervous System
CI	China	DSL	Canada
ECL	Korean Existing Chemicals List	EEC	European Economic Commission
ENCS	Japanese Existing and New Chemical List	EU	European Union
MAK	Germany	MAC	Netherlands
PICCS	Philippines	MITI	Japan
UK	United Kingdom	SWISS	Giftliste 1
VOC	Volatile organic content	USA	United States
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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