

ZECO95955 - METHANOL

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product name Methanol
Product number ZECO95955
Brand Zecol

1.4 SUPPLIER'S DETAILS

Name Highline Aftermarket
Address 4500 Malone Road
Memphis TN 38118

Telephone 901-775-5555

email sds@highlineaftermarket.com

1.5 EMERGENCY PHONE NUMBER CHEM-TEL (800) 255-3924

24 Hour Assistance

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Flammable liquids, Cat. 2
- Acute toxicity, dermal, Cat. 3
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, oral, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictogram







1. Skull and crossbones; 2. Health hazard; 3. Flammable

Signal word Danger

Hazard statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P240 Ground/Bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.



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P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash exposed area 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 protective gloves/protective clothing.

P284 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water/.

P303 + P361 + P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER.

P320 Specific treatment is urgent (see First Aid Section).

P330 Rinse mouth.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use fire extinguisher to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container according to local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Components

1. Methanol

 Concentration
 100 % (weight)

 EC no.
 200-659-6

 CAS no.
 67-56-1

 Index no.
 603-001-00-X

- Flammable liquids, Cat. 2
- Acute toxicity, inhalation, Cat. 3
- Acute toxicity, dermal, Cat. 3
- Acute toxicity, oral, Cat. 3
- Specific target organ toxicity (single exposure), Cat. 1

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

If inhaled

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Acute and delayed symptoms and effects: May cause drowsiness or dizziness. May cause respiratory irritation. Signs/symptoms may include



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cough, sneezing, nasal discharge, headache, hoarseness, and nose and

throat pain.

In case of skin contact

Take off immediately all contaminated clothing. Wash with plenty of soap and

water for at least 15 minutes. Get medical attention if irritation develops or

persists. Wash contaminated clothing before reuse.

Acute and delayed symptoms and effects: May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If irritation persists, get medical

attention.

Acute and delayed symptoms and effects: May cause eye irritation.

Signs/symptoms may include redness, swelling, pain, tearing, and blurred or

hazy vision.

If swallowed Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce

the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Call a poison center or doctor if you feel unwell.

Acute and delayed symptoms and effects: Toxic if swallowed. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain,

stomach upset, nausea, vomiting and diarrhea.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling and/or on this Safety Data Sheet.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Dry chemical, CO2, water spray or alcohol-resistant foam. Water spray is recommended to cool or protect exposed materials or structures. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

This material is highly flammable and can be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Flame is invisible in daylight. Vapors may travel considerable distances to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, in confined spaces, outdoors or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Vapors are heavier than area and can accumulate in low areas.

5.3 HAZARDOUS COMBUSTION PRODUCTS

Toxic gases and vapors; oxides of carbon and formaldehyde.



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5.4 SPECIAL FIREFIGHTING PROCEDURES

For fires beyond the initial stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Eliminate all sources of ignition. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands with soap and water after handling. Container explosion may occur under fire conditions. Use explosion-proof equipment. Use only non-sparking tools. Keep away from sources of ignition. No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.

7.2 CONDITIONS FOR SAFE STORAGE. INCLUDING ANY INCOMPATIBILITIES

Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

1. Methanol (CAS: 67-56-1 EC: 200-659-6)

PEL-TWA (Inhalation): 200 ppm, 260 mg/m3 (OSHA)



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Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices Danger of cutaneous absorption.

PEL-TWA (Inhalation): 200 ppm (Cal/OSHA)
PEL-ST (Inhalation): 250 ppm (Cal/OSHA)
PEL-C (Inhalation): 1000 ppm (Cal/OSHA)
PEL-ST (Inhalation): 250 ppm (NIOSH)
REL-TWA (Inhalation): 200 ppm (NIOSH)
TLV® (Inhalation): 200 ppm (ACGIH)

TLV® (Inhalation): 250 ppm (ST) (ACGIH)

8.2 APPROPRIATE ENGINEERING CONTROLS

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT (PPE)

Pictograms





Eye/face protection

Safety glasses. If splash hazard, wear faceshield (8-inch minimum). Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Skin protection

Wear protective gloves, such as nitrile gloves.

Body protection

Wear suitable protective clothing. If splash risk, ensure clothing is impervious and fire resistant.

Respiratory protection

Provide good ventilation. Respiratory protection is not required under normal use conditions.

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits, then an appropriate NIOSH/MSHA approved air-purifying respirator with organic vapor/acid gas cartridge and particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

Thermal hazards

No data available.

Environmental exposure controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties



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Appearance/form (physical state, color, etc.)

Odor pH

Flash point Evaporation rate

Upper/lower flammability limits Upper/lower explosive limits

Vapor pressure Vapor density Relative density Solubility(ies)

Auto-ignition temperature Decomposition temperature

Viscosity

Explosive properties Oxidizing properties

Other safety information

No data available.

Clear Liquid Alcohol

No data available. 11C (51.8F) 5.9 (n-BuAc=1) 6% (v)

36.5% (v) 97 mm Hg @ 20C 1.11 (Air = 1) 0.79 @ 20C Soluble in water

455C

No data available. Water Thin Not Applicable Not Applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

Contact with incompatible materials. Sources of ignition. Exposure to heat.

10.2 CHEMICAL STABILITY

Stable under normal storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

10.5 INCOMPATIBLE MATERIALS

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids. May attack some forms of plastic, rubber and coatings.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides and formaldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Components: Methanol

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Acute and delayed symptoms and effects from inhalation, skin and eye contact and ingestion are listed in Section 4.





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ATE (dermal) of mixture: 300 mg/kg

ATE (inhalation, dust/mist) of mixture: 0.5 mg/l ATE (inhalation, gaseous) of mixture: 700 ppmv

ATE (oral) of mixture: 100 mg/kg

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skin sensitization

May cause irritation or breathing difficulties if inhaled.

Germ cell mutagenicity

Based on available data, classification data are not met.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Methanol has produced fetotoxicity in rats and teratogenicity in mice exposed by inhalation to high concentrations of methanol vapors.

STOT-single exposure

Causes damage to organs. May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Methanol:

Acute EC50 = 16.912 mg/L Marine Water
Acute LC50 = 2500000 ug/L Marine Water
Acute LC50 = 3289 mg/L Fresh Water
Acute LC50 > 100000 ug/L Fresh Water

Persistence and degradability

Methanol biodegrades easily in water and soil.

BOD5 = 1.1 COD = 1.05 - 1.55, 99%







Bioaccumulative potential

Risk of bioaccumulation is low (BCF <500 and low log Kow <4). BCF = 0.2 - <10 LogKow = -0.77.

Mobility in soil

Methanol is highly mobile. Adsorption coefficient (Koc) solid phase/liquid phase = 1.

Other adverse effects

No data available on product.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN Number: UN1230

Proper Shipping Name: METHANOL

Class: 3

Packing Group: II Required Labels: 3 (6.1) Marine pollutant: No

ERG: 131

(Product ships Limited Quantity in containers < 1 liter)

IATA Information:

UN#: UN1230

Shipping Name: METHANOL

Hazard Class: 3 (6.1)
Packing Group: II
Paguired Label(s): 3 (6

Required Label(s): 3 (6.1)

Packing instruction (cargo aircraft): 364
Packing instruction (passenger aircraft): 352
Packing instruction (passenger aircraft): Y341

IMDG Information:

UN#: UN1230

Shipping Name: METHANOL

Hazard Class: 3 (6.1) Packing Group: II

Required Label(s): 3 (6.1)

TDG Information:

Proper Shipping Name: Methanol



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Identification Number: UN1230

Hazard Class: 3 (6.1) Packing Group: II ERG Guide Number: 131 Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT IN QUESTION

California Prop. 65 Components

Chemical name: Methanol CAS number: 67-56-1

03/16/2012 - Developmental toxicity

California Proposition 65

WARNING: Reproductive Harm. www.P65Warnings.ca.gov

This product contains the following Proposition 65 chemicals:

Methanol (CAS-No. 67-56-1)

Massachusetts Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

New Jersey Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

Pennsylvania Right To Know Components

Chemical name: Methanol CAS number: 67-56-1

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, No SARA Hazards.

SARA 313 Components



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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl alcohol - 67-56-1	67-56-1	100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard

Chronic Health Hazard

Yes
Fire Hazard

Sudden release of pressure hazard

No
Reactive Hazard

No

TSCA: Methanol is listed on the TSCA inventory.

DSL: Methanol is listed on the DSL inventory.

OSHA (Occupational Safety and Health Administration): This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.

This material has not been identified as a carcinogen by NTP, IARC or OSHA.

SECTION 16: OTHER INFORMATION

16.1 FURTHER INFORMATION/DISCLAIMER

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Highline Aftermarket be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Highline Aftermarket has been advised of the possibility of such damages.

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