SECTION 1 Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **70% Methanol**
- Product Part Number: **8055-8056**

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

- Use of the substance/mixture: Laboratory chemical
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 620 Lesher Place
  Lansing, Michigan 48912
  USA
- Telephone: 517/372-9200
- Email: Foodsafety@neogen.com

1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: (800) 424-9300
  Outside USA and Canada (703) 527-3887

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]

- Flam. Liq. 2, H225, STOT SE 1, H370

Classification (29 CFR 1910.1200)

- Flammable liquid, Cat. 2, Specific target organ toxicity (single exposure), Cat. 1

Classification (WHMIS 2015 HPR)

- Flammable liquid, Cat. 2, Specific target organ toxicity (single exposure), Cat. 1
- Additional information: For full text of Hazard- and EU Hazard-statements: see Section 16

2.2 Label elements


GHS02


GHS08

- Signal Word: Danger
- Hazard phrases
  Highly flammable liquid and vapor.
  Causes damage to organs.
- Precautionary Phrases
  Keep away from heat, sparks, open flames, hot surfaces, and other ignition sources.
  Do not eat, drink or smoke when using this product.
  Ground/bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Wear protective gloves/protective clothing/eye protection/face protection.
  Wash hands thoroughly after handling.
  Do not breathe dust/fume/gas/mist/vapors/spray.
  IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.
  If exposed: Call a POISON CENTER or doctor/physician.
  In case of fire: Use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide to extinguish.
  Store locked up in a well-ventilated place. Keep container tightly closed in a cool place.
  Dispose of contents/container in accordance with local/national/international regulations.

SECTION 2 Hazards identification (continued)

2.3 Other hazards

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

SECTION 3 Composition/information on ingredients

3.1 Substances

3.2 Mixtures

This product is a mixture of the substances listed below with the addition of non-hazardous materials

Chemical	Concentration	CAS No.	EC Number	H Phrases	Symbols
Methanol	70%	67-56-1	200-659-6	H225, H370	GHS02, GHS08

SECTION 4 First aid measures

4.1 Description of first aid measures

- General
  In case of doubt, or when symptoms persist, seek medical attention.
  This product is hazardous to humans or animals. Like any other chemical, it should be treated with care, respect, and common sense.
- Contact with skin
  IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.
  If skin irritation or rash occurs: Get medical advice/attention.
  Contaminated clothing should be laundered before reuse.
- Contact with eyes
  If substance has gotten into eyes, immediately wash out with plenty of water for at least 15 minutes.
  Irrigate eyes thoroughly while lifting eyelids.
  Seek medical advice if necessary.
- Ingestion
  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  Rinse mouth with water (do not swallow).
  Never make an unconscious person vomit or drink fluids.
  If medical advice is needed, have product container or label at hand.
- Inhalation
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the heart, liver, lungs, and kidneys.
- Causes dizziness, confusion, headache or stupor.
- The ingestion of significant quantities may cause damage to central nervous system.
- May result in feeling of intoxication and can cause visual disturbance.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.
- Symptoms of poisoning may occur even after several hours; therefore provide medical observation for at least 48 hours after the accident.

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

SECTION 5 Fire-fighting measures (continued)

5.2 Special hazards arising from the substance or mixture

- Highly flammable liquid and vapor.
- Vapors are heavier than air and may travel considerable distances to a source of ignition and flashback.
- In case of fire, do not breathe fumes.
- Gives off irritating or toxic fumes (or gases) in a fire.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- In confined spaces, sewers, etc., the vapors may collect to form explosive mixtures with air.
- Prevent run off water from entering drains if possible.
- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Wear protective clothing as per Section 8
- Wash thoroughly after dealing with spillage.
- Eyewash bottles should be available.
- Take precautionary measures against static discharge.
- Use only non-sparking hand tools.

6.2 Environmental Precautions

- Avoid release to the environment.
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

6.3 Methods and material for containment and cleaning up

- Eliminate all ignition sources if safe to do so.
- Stop leak if safe to do so.
- Small spills
  Wipe up spillage with damp cloth or mop.
  Place in sealable container.
- Large spills
  Absorb spillage in inert material and shovel up.
  Place in sealable containers and label them.
  Remove contaminated material to safe location for subsequent disposal.
  Ventilate the area and wash spill site after material pick-up is complete.

6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Vapors are heavier than air and may travel considerable distances to a source of ignition and flashback.
- Do not eat, drink or smoke when using this product.
- Do not get in eyes, on skin, or on clothing.
- Avoid breathing vapors, mist or gas.
- Use non-sparking hand tools.
- Ground/bond container and receiving equipment.
- Take precautionary measures against static discharge.
- Ensure adequate ventilation.
- Wash thoroughly after handling.
- Contaminated clothing should be laundered before reuse.
- Eyewash bottles should be available.

SECTION 7 Handling and storage (continued)

7.2 Conditions for safe storage, including any incompatibilities

- Store at temperatures not exceeding 30°C/86°F. Keep cool.
- Store in a well-ventilated place. Keep container tightly closed.
- Keep away from oxidizers, heat, flames or ignition sources.
- Protect from sunlight.
- Keep away from food, drink and animal feed.
- Take precautionary measures against static discharge.
- Ground/bond container and receiving equipment.
- Use explosion-proof ventilating and lighting equipment.
- Keep away from alkali metals.
- Incompatible with strong acids.
- Keep away from alkalis (strong bases).
- Incompatible with reducing agents and halogenated substances.

7.3 Specific end use(s)

- Laboratory chemical

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Methanol	67-56-1	TWA	200 ppm, 260 mg/m^3	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	200 ppm, 260 mg/m^3	USA-NIOSH Recommended Exposure Limits
		STEL	250 ppm, 325 mg/m^3 (skin)	USA-NIOSH Recommended Exposure Limits
		TWA	200 ppm (skin)	USA-ACGIH Threshold Limit Values
		STEL	250 ppm (skin)	USA-ACGIH Threshold Limit Values

8.2 Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines.
- Use explosion-proof ventilating and lighting equipment.
- In case of insufficient ventilation, wear suitable respiratory equipment such as EN371 type AX or NIOSH standard 84A.
- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended).
- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Glove material: butyl rubber
  Thickness: 0.5 mm
  Breakthrough time: 8 hours
  Reference: Lit.
- Wear safety glasses approved to standards EN 166 or ANSI Z87 or chemical splash goggles.
- Eyewash bottles should be available.

Gloves Safety Glasses Lab Coat Respirator No Flames No Smoking

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Aqueous solution, clear, colorless
- Odor: Alcohol odor
- Odor threshold: No information available
- pH: Not applicable
- Melting point/freezing point: -98°C (pure methanol)
- Initial boiling point and boiling range: 73°C (Lit)
- Flashpoint: 16°C
- Evaporation Rate: No information available
- Flammability (solid, gas): Not applicable
- Upper/lower flammability or explosive limits: LEL 6.0 (v/v)%, UEL 36.5 (v/v)%
- Vapor Pressure: 12 Kpa @ 20°C
- Vapor Density: No information available
- Relative Density: 0.87 @ 20°C (Lit)
- Solubility(ies): Soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature : 470°C (pure methanol)
- Decomposition temperature: No information available
- Viscosity: No information available
- Explosive Properties: No information available
- Oxidizing Properties: No information available

9.2 Other information

- No information available

SECTION 10 Stability and reactivity

10.1 Reactivity

- No hazardous reactions known if used for its intended purpose.

10.2 Chemical stability

- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions

- In use, may form flammable/explosive vapor-air mixture.

10.4 Conditions to avoid

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

- Incompatible with strong acids.
- Incompatible with oxidizing substances.
- Incompatible with alkali metals.
- Contact with reducing agents may form explosive gases.
- Incompatible with peroxides.

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
  No experimental test data available for the mixture.
  LD_{50} (oral, rat) (methanol) 5,630 mg/kg
  LD_{50} (dermal, rabbit) (methanol) 15,800 mg/kg
  LC_{50} (inhalation, rat) (methanol) 33.9 mg/L/4h
  Classification based on calculation and concentration thresholds.
- Skin corrosion/irritation
  No experimental test data available for the mixture.
  Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
  Based on available data, the classification criteria are not met.

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foodsafety@neogen.com • www.neogen.com

SECTION 11 Toxicological information (continued)

- Respiratory or skin sensitization
  Based on available data, the classification criteria are not met.
- Germ cell mutagenicity
  No information available.
- Carcinogenicity
  Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens.
  Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
  Not listed in OSHA standard 1910.1003 Carcinogens.
- Reproductive toxicity
  No information available.
- Specific target organ toxicity (STOT) - single exposure
  Can cause damage to: Heart, liver, kidney, eyes (optic nerve), and central nervous system.
- Specific target organ toxicity (STOT) - repeated exposure
  No information available
- Aspiration hazard
  No information available
- Contact with eyes
  May cause redness and irritation in sensitive individuals.
- Contact with skin
  Can be absorbed through skin.
  Can cause damage to the central nervous system.
- Inhalation
  May cause damage to organs through prolonged or repeated exposure by inhalation.
- Ingestion
  May cause gastro-intestinal disturbances.
  May cause blindness if swallowed.
  Can cause damage to: Heart, kidney, liver, eyes, and central nervous system.

SECTION 12 Ecological information

12.1 Toxicity

Methanol

Toxicity to fish

LC_{50} – Pimephales promelas (Fathead minnow) >10000 mg/L-96h

Toxicity to daphnia and other aquatic invertebrates

EC_{50} – Daphnia magna (Water flea) >10000 mg/L-24h

12.2 Persistence and degradability

- Will degrade

12.3 Bioaccumulation Potential

- Log K_{ow} - 0.74

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- No information available

12.6 Other Adverse Effects

- No information available

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state, national or international regulations.
- Do not discharge into drains or the environment, dispose to an authorized waste collection point.
- Refer to manufacturer/supplier for information on recovery/recycling.
- Do not pierce or burn container, even after use.
- Empty containers may contain flammable vapors.

SECTION 13 Disposal considerations

13.2 Classification (REACH)

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

SECTION 14 Transport information

Flammable Liquid

Toxic

14.1 UN Number

- UN No.: 1230

14.2 UN Proper Shipping Name

- Proper Shipping Name: METHANOL SOLUTION

14.3 Transport hazard class(es)

- Hazard Class: 3 (6.1)

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- On available data, substance is not harmful to the environment.

14.6 Special precautions for user

- No special precautions are required for this product.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.8 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Methanol solution
- DOT UN No.: 1230
- DOT Hazard Class: 3 (6.1)
- DOT Packing Group: II

14.9 International Road/Rail (ADR/RID)

-Proper Shipping Name: METHANOL SOLUTION
-ADR UN No.: 1230
-ADR Hazard Class: 3 (6.1)
-ADR Packing Group: II
-Tunnel Code: D/E

14.10 Ocean/Sea (IMO/IMDG)

-Proper Shipping Name: METHANOL SOLUTION
-IMDG UN No.: 1230
-IMDG Hazard Class: 3 (6.1)
-IMDG Packing Group: II

14.11 Air (ICAO/IATA)

-Proper Shipping Name: Methanol solution
-ICAO Un No.: 1230
-ICAO Hazard Class: 3 (6.1)
-ICAO Packing Group: II

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006- 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

15.2 Chemical Safety Assessment

- A REACH chemical safety assessment has not been carried out.

15.3 United States Regulatory Information

SARA 302 Components

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

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: Methanol (CAS No. 67-56-1)

SARA 311/312

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm: Methanol CAS No. 67-56-1.

State Right-to-Know

Massachusetts
Methanol CAS No. 67-56-1
New Jersey
Methanol CAS No. 67-56-1
Pennsylvania
Methanol CAS No. 67-56-1

SECTION 16 Other information

Date of Preparation: January 2016
Revision: Rev. 0
Replaces: New issue

Text not given with phrase codes where they are used elsewhere in this safety data sheet:
H225: Highly flammable liquid and vapor. H370: Causes damage to organs.

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