

Safety Data Sheet



Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 1/12

1. Identification of the substance/mixture and of the company/undertaking

Product name: METHANOL RECOVERED

Product code: 8020075

Synonyms: None.

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

Identified uses: Film or paper manufacturing chemical. For industrial use only.

Supplier: Everchem, LLC, 1400 N. Providence Road, Suite 302, Media, PA 19063

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For further information about this product, call (484) 234-5030

2. Hazards identification

Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:

| Hazard class | Hazard category | Route of exposure |
|---|-----------------|-------------------|
| Flammable liquids | Category 2 | -- |
| Acute toxicity | Category 3 | Oral |
| Acute toxicity | Category 3 | Dermal |
| Acute toxicity | Category 3 | Inhalation |
| Skin corrosion/irritation | Category 2 | -- |
| Serious eye damage/eye irritation | Category 2B | -- |
| Target Organ Systemic Toxicant - Single exposure | Category 1 | -- |
| Target Organ Systemic Toxicant - Repeated exposure | Category 2 | -- |

GHS-Labeling

Contains:
Methanol (67-56-1)

Symbol(s):

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 2/12



Signal word: Danger

Hazard statements: Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes skin irritation. Causes eye irritation. Causes damage to organs. (Eyes.) May cause damage to organs through prolonged or repeated exposure. (Central nervous system.)

Precautionary statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF exposed or concerned: Call a POISON CENTER or doctor/ physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in cool place.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

HMIS III Hazard Ratings: Health - 2*, Flammability - 3, Physical Hazard - 0

NFPA Hazard Ratings: Health - 2, Flammability - 3, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 3/12

potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

| Weight percent | Components - (CAS-No.) |
|----------------|------------------------|
| 95 - 100 | Methanol (67-56-1) |
| 0.1 - < 1 | Ethanol (64-17-5) |

4. First aid measures

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration using mouth guards or shields, when available, to avoid mouth-to-mouth contact. If breathing is difficult, give oxygen. Call a physician or poison control centre immediately.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Skin: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed:

Treatment: Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

5. Firefighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special hazards arising from the substance or mixture

Hazardous Combustion Products: Carbon oxides

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective suit. Water may be ineffective.

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 4/12

Unusual Fire and Explosion Hazards: Highly flammable liquid and vapor. Material contains a flammable solvent that may accumulate in the container headspace. Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Prevent buildup of vapors or gases to explosive concentrations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up: Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

Environmental precautions: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

For Large Spills: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Precautions for safe handling

Personal precautions: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

Prevention of Fire and Explosion: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep from contact with oxidizing materials. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

| Chemical Name | Regulatory | Value Type | Value |
|------------------------------|------------|----------------|------------------|
| Everchem Specialty Chemicals | | (484) 234-5030 | www.everchem.com |

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 5/12

| | List | | |
|----------|-------|---|-----------------------|
| Methanol | ACGIH | time weighted average | 200 ppm |
| Methanol | | Short term exposure limit | 250 ppm |
| | | <i>Skin - potential significant contribution to overall exposure by the cutaneous route</i> | |
| | OSHA | time weighted average | 200 ppm 260 mg/m3 |
| Ethanol | ACGIH | Short term exposure limit | 1,000 ppm |
| | OSHA | time weighted average | 1,000 ppm 1,900 mg/m3 |

Appropriate engineering controls: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye protection: Wear eye/face protection.

Hand protection: Wear protective gloves.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: full-face positive-pressure air-supplied. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

9. Physical and chemical properties

Physical form: liquid

Color: Colorless clear

Odor: characteristic

Specific gravity: 0.791 - 0.794

Vapor pressure (at 21.0 °C (69.8 °F)): 133 mbar (99.8 mm Hg)

Vapor density: 1.1

Boiling point/boiling range: 64.5 °C (148.1 °F)

Water solubility: Miscible

pH: No data available

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 6/12

Flash point: 10 °C (50.0 °F) (Tag closed cup)

Evaporation rate: No data available

Flammability (Solid; gas): No data available

Upper explosion limit: No data available

Lower explosion limit: No data available

Partition coefficient: n-octanol/water: log Pow= -0.77

Auto-ignition temperature: 464.0 °C (867.2 °F)

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

10. Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under normal conditions.

65 °C byHPDTA

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: No data available

Incompatible materials: Strong oxidizing agents, Strong acids.

Hazardous decomposition products: None under normal conditions of use.

11. Toxicological information

Effects of Exposure

General advice:

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 7/12

Contains: Methanol. Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of methyl alcohol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been several cases reported of blindness, coma and death due to the ingestion of methyl alcohol. May cause cancer.

Contains: Ethanol. Prolonged exposure to high vapour concentrations or ingestion of ethanol may cause irritation, headache, drowsiness, fatigue, and narcosis. Can cause CNS effects.

Inhalation: Toxic if inhaled.

Eyes: Causes eye irritation.

Skin: Causes skin irritation. Toxic in contact with skin.

Ingestion: May be fatal or cause blindness if swallowed.

Data for Methanol (CAS 67-56-1):

Acute Toxicity Data:

Oral LD50 (rat): 6,200 mg/kg

- Oral LDLo (Humans): 300 mg/kg
- Inhalation LC50 (rat): 83.2 mg/l / 4 hr
- Dermal LD50 (guinea pig): 7,910 - 15,820 mg/kg
- Dermal LD50 (rabbit): 12,800 mg/kg
- Skin irritation: Skin irritation
- Eye irritation: slight to moderate

Data for Ethanol (CAS 64-17-5):

Acute Toxicity Data:

Oral LD50 (mouse): > 8,000 mg/kg

- Oral LD50 (female rat): > 5,000 mg/kg
- Oral LD50 (rat): 7,060 mg/kg
- Inhalation LC50 (rat): 20000 ppm / 10 hr
- Inhalation LC50 (rat): 124.7 mg/l / 4 hr
- Skin irritation: No skin irritation
- Eye irritation: mild
- Eye irritation: Mild eye irritation

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

This product has not been tested for environmental effects.

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 8/12

Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l (Exposure time: 96 hr)

Toxicity to daphnia (EC50): Daphnia: > 100 mg/l

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow= -0.77

Mobility in soil

No information available.

13. Disposal considerations

Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container. Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws.

14. Transport information

The information below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification. The final classification as it pertains to the product packaging configuration (including labeling, marking, and exceptions) may be obtained via the Dangerous Goods Worksheet.

IATA: UN number: UN1230
Proper shipping name: METHANOL
Class: 3
Packaging group: II

IMDG: UN number: UN1230
Proper shipping name: METHANOL
Class: 3
Sub-risks: 6.1
Packaging group: II

US DOT: UN number: UN1230
Proper shipping name: METHANOL

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 9/12

Class: 3
Sub-risks: 6.1
Packaging group: II

15. Regulatory information

Notification status

| Regulatory List | Notification status |
|-----------------|---------------------|
| TSCA | Not all listed |
| DSL | Not all listed |
| NDSL | None listed |
| EINECS | Not all listed |
| ELINCS | None listed |
| NLP | None listed |
| AICS | Not all listed |
| IECS | Not all listed |
| ENCS | Not all listed |
| ECI | Not all listed |
| NZIoC | Not all listed |
| PICCS | Not all listed |
| TSCA 12(b) | Listed |

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements.

Other regulations

| | |
|--|---|
| American Conference of Governmental Industrial Hygienists (ACGIH): | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans: Ethanol |
| International Agency for Research on Cancer (IARC): | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 10/12

| | |
|--|---|
| U.S. National Toxicology Program (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. |
| U.S. Occupational Safety and Health Administration (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. |
| California Prop. 65 | WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. |
| U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances): | Methanol |
| U.S. - CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities): | No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements. |
| U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting): | Methanol |
| U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances: | Methanol |
| U.S. - California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens: | No components found on the California Specifically Regulated Carcinogens List. |
| U.S. - California - 8 CCR Section 5203 Carcinogens: | No components found on the California Section 5203 Carcinogens List. |
| U.S. - California - 8 CCR Section 5209 Carcinogens: | No components found on the California Section 5209 Carcinogens List. |
| U.S. - Massachusetts - General Law Chapter 111F (MGL c 111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law): | Methanol |
| U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances): | Methanol |
| U.S. - New Jersey - Worker and Community Right to Know Act (N.J.S.A. 34:5A-1): | Methanol |
| U.S. - Pennsylvania - Part XIII. Worker and Community | Methanol , Toluene , Isopropanol , |

Safety Data Sheet

Revision Date: 05/01/2014
000000042230/Version: 3.0
Print Date: 05/11/2015
Page: 11/12

Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A): Acetone

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

METHANOL RCOVERED

Contains:
Methanol (67-56-1)

Symbol(s):



Signal word: Danger

Hazard statements: Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes skin irritation. Causes eye irritation. Causes damage to organs. (Eyes.) May cause damage to organs through prolonged or repeated exposure. (Central nervous system.)

Precautionary statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/ gas/ mist/ vapors/ spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Response: In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF exposed or concerned: Call a POISON CENTER or doctor/ physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

Safety Data Sheet

Revision Date: 05/01/2014
00000042230/Version: 3.0
Print Date: 05/11/2015
Page: 12/12

advice/ attention. **IF ON SKIN** (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. **IF SWALLOWED**: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in cool place.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation.

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration using mouth guards or shields, when available, to avoid mouth-to-mouth contact. If breathing is difficult, give oxygen. Call a physician or poison control centre immediately. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. **IF ON SKIN** (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. **IF SWALLOWED:** Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. **Note to Physicians:** Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. **IN CASE OF FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers. **IN CASE OF SPILL:** Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. For Large Spills: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, or streams. Additional Components Include: Total Ketones (proprietary) , Toluene (108-88-3) , Isopropanol (67-63-0).

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-2, S-2, F-3, C-0