

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 1/7

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

Product name: CIN 10077039 DZ-100 2UM CHEM LIQUID

Product code: 20325866

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York, 14608

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonyms: None.

2. Hazards identification

CONTAINS: Methanol (67-56-1)

DANGER!

FLAMMABLE LIQUID AND VAPOR

POISON

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED -

CANNOT BE MADE NONPOISONOUS - VAPOR HARMFUL

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN

CAUSES SKIN AND EYE IRRITATION

HMIS II Hazard Ratings:

Health - 2, Flammability - 3, Reactivity (Stability) - 0

NFPA Hazard Ratings:

Health - 2, Flammability - 3, Instability - 0

NOTE: HMIS II and NFPA 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 potential hazards. An asterisk (*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

| Weight % | Components (CAS-No.) |
|----------|---|
| 50 - 90 | Methanol (67-56-1) |
| 10 - 50 | Benzene, diethenyl-, polymer with ethenylethylbenzene (9043-77-0) |

4. First aid measures

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 2/7

Inhalation: If inhaled, move 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 center immediately.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Notes to physician:

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

5. Fire-fighting measures

Extinguishing Media: water spray, carbon dioxide (CO₂), dry chemical, foam.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Use water spray to cool unopened containers. Water may be ineffective.

Hazardous Combustion Products: Carbon oxides

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

6. Accidental release measures

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

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

7. Handling and storage

Personal precautions: Do not breathe mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Keep from contact with oxidizing materials. Comply with all

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 3/7

national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Storage: 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 List | Value Type | Value |
|---------------|-----------------|----------------------------|-------------------------------|
| Methanol | ACGIH | time weighted average | 200 ppm |
| | ACGIH | Short term exposure limit | 250 ppm |
| | ACGIH | Skin designation: | |
| | OSHA Z1 | Permissible exposure limit | 200 ppm 260 mg/m ³ |

Remarks: Can be absorbed through the skin.

Ventilation: 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.

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.

Eye protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

9. Physical and Chemical Properties

Physical form: liquid

Colour: No data available

Odour: No data available

Specific gravity: No data available

Vapour pressure: No data available

Vapour density: No data available

Volatile fraction by weight: No data available

Boiling point/range: > 35.0 °C (> 95.0 °F) (estimated)

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 4/7

Water solubility: No data available

pH: No data available

Flash point: < 38.0 °C (< 100.4 °F) estimated

10. Stability and reactivity

Stability: Stable

No exotherm to 400 °C by DSC

Incompatibility: strong oxidizing agents.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerization does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Methanol. Prolonged and repeated exposure to high vapour 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.

Inhalation: Harmful if inhaled.

Eyes: Causes eye irritation.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Ingestion: POISON. May be fatal or cause blindness if swallowed. Cannot be made nonpoisonous.

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

Acute Toxicity Data:

- Oral LD50 (rat): 6,200 mg/kg
- Inhalation LC50 (rat): > 22500 ppm / 8 hr
- Dermal LD50: 20 mL/kg
- Skin irritation: moderate
- Eye irritation: slight to moderate

12. Ecological information

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 5/7

This section has not been completed.

13. Disposal considerations

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

14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

| | | |
|----------------|-----------------------|------------------|
| IATA: | UN Number: | UN1230 |
| | Proper shipping name: | Methanol Mixture |
| | Class: | 3 |
| | Packaging group: | II |
| IMDG: | UN Number: | UN1230 |
| | Proper shipping name: | METHANOL Mixture |
| | Class: | 3 |
| | Sub-risks: | 6.1 |
| | Packaging group: | II |
| US DOT: | UN Number: | UN1230 |
| | Proper shipping name: | Methanol Mixture |
| | Class: | 3 |
| | Sub-risks: | 6.1 |
| | Packaging group: | II |

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. Regulatory information

U.S. California Prop. 65: none

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC): none
American Conference of Governmental Industrial Hygienists (ACGIH): none
U.S. National Toxicology Program (NTP): none
U.S. Occupational Safety and Health Administration (OSHA): none

Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:
Methanol

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 6/7

16. Other information

US/Canadian Label Statements:

CONTAINS: Methanol (67-56-1)

DANGER!

FLAMMABLE LIQUID AND VAPOR

POISON

MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED -

CANNOT BE MADE NONPOISONOUS - VAPOR HARMFUL

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN

CAUSES SKIN AND EYE IRRITATION

POISON - CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY

Keep away from open flames, hot surfaces and sources of ignition.

Store in a cool place.

Keep container tightly closed.

Residual vapours may explode on ignition: do not cut, drill, grind, or weld on or near this container.

Do not breathe mist or vapour at concentrations greater than the exposure limits.

Avoid contact with eyes, skin, and clothing.

Use only with adequate ventilation.

Wash thoroughly after handling.

FIRST AID: If inhaled, move 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. If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

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, foam, dry chemical, carbon dioxide (CO₂). Use water spray to cool unopened containers.

IN CASE OF SPILL: Absorb spill with inert material, then place in a chemical waste container. Remove all sources of ignition. Use water spray to disperse vapours and dilute spill to a nonflammable mixture. Prevent runoff from entering drains, sewers, and streams.

Material Safety Data Sheet

Revision Date: 04/22/2007
Z30000001190/Version: 1.0
Print Date: 11/11/2010
Page: 7/7

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