SAFETY DATA SHEET

Crude MCHM

SECTION 1. IDENTIFICATION

Product name : Crude MCHM

Product code : 18717-00, P1871700, P18717EA, P18717ET, E1871701

Manufacturer or supplier’s details

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive
           Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Industrial chemical
                  Fuel Blending
                  Mining

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms

Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.
                  H315 Causes skin irritation.
                  H317 May cause an allergic skin reaction.
                  H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.

Precautionary Statements:

**Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ eye protection/ face protection.
P272 Contaminated work clothing should not be allowed out of the workplace.

**Response:**
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.
P362 Take off contaminated clothing and wash before reuse.

**Storage:**
P405 Store locked up.

**Disposal:**
P501 Dispose of contents/container to an approved waste disposal plant.

**Other hazards**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-methylcyclohexanemethanol</td>
<td>34885-03-5</td>
<td>60 - 89</td>
</tr>
<tr>
<td>4-(methoxymethyl)cyclohexanemethanol</td>
<td>98955-27-2</td>
<td>1 - 22</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>4 - 11</td>
</tr>
<tr>
<td>methyl 4-methylcyclohexanecarboxylate</td>
<td>51181-40-9</td>
<td>5</td>
</tr>
<tr>
<td>dimethyl 1,4-cyclohexanedicarboxylate</td>
<td>94-60-0</td>
<td>1</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>1</td>
</tr>
<tr>
<td>1,4-cyclohexanediethylale</td>
<td>105-08-8</td>
<td>1 - 2</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

If inhaled
- Treat symptomatically.
- Remove to fresh air.
- Get medical attention if symptoms occur.

In case of skin contact
- Wash off immediately with plenty of water for at least 15 minutes.
- Take off contaminated clothing and shoes immediately.
- Get medical advice/attention.

In case of eye contact
- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- Get medical advice/attention.

If swallowed
- Seek medical advice.

Most important symptoms and effects, both acute and delayed
- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- Suspected of damaging the unborn child.

Notes to physician
- Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
- Water spray
- Dry chemical
- Carbon dioxide (CO2)
- Foam

Unsuitable extinguishing media
- None known.

Hazardous combustion products
- No hazardous combustion products are known

Further information
- None known.

Special protective equipment for fire-fighters
- Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
- Use personal protective equipment.
- Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions
- Avoid release to the environment.

Methods and materials for containment and cleaning up
- Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)
and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: None known.

Advice on safe handling: Avoid contact with skin, eyes and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage: Keep container tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>250 ppm 325 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>250 ppm 325 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Engineering measures: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection: Wear respiratory protection.

Hand protection

Remarks: Wear suitable gloves.

Eye protection: Safety glasses
Protective measures: Wear suitable protective equipment.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: colorless
Odor: alcohol, licorice
Odor Threshold: 0.15 ppb
pH: not determined
Melting point/freezing point: 32 °F / 0 °C
Boiling point/boiling range: 356 °F / 180 °C
Flash point: 235.0 °F / 112.8 °C
   Method: Seta closed cup
Evaporation rate: not determined
Upper explosion limit / Upper flammability limit: not determined
Lower explosion limit / Lower flammability limit: not determined
Vapor pressure: 24 mbar (68 °F / 20 °C)
Relative vapor density: not determined
Relative density: < 1 (estimated)
Solubility(ies):
   Water solubility: appreciable
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: not determined
Decomposition temperature: Thermal stability not tested. Low stability hazard expected at normal operating temperatures.

Viscosity
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: None known.
Conditions to avoid: Incompatible materials
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: Carbon dioxide (CO2) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Harmful if swallowed.

Product:
Acute oral toxicity: LD50 Oral (Rat): 825 mg/kg
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: LD50 Dermal (Rat): > 2,000 mg/kg

Components:
methanol:
Acute oral toxicity: LD50 Oral (Rat): 5,600 mg/kg
Acute dermal toxicity: LD50 Dermal (Rabbit): 17,100 mg/kg

dimethyl 1,4-cyclohexanedicarboxylate:
Acute oral toxicity: LD50 Oral (Rat): > 5,000 mg/kg
Acute inhalation toxicity: LC50 (Rat): > 2.91 mg/l
Exposure time: 6 h
Acute dermal toxicity: LD50 Dermal (Guinea pig): > 10 mg/kg
Skin corrosion/irritation
Causes skin irritation.

Product:
Species: Rabbit
Exposure time: 4 h
Result: Moderate

Components:
4-methylcyclohexanemethanol:
Species: Guinea pig
Exposure time: 24 h
Result: strong

methanol:
Species: Rabbit
Exposure time: 72 h
Result: none

dimethyl 1,4-cyclohexanedicarboxylate:
Species: Guinea pig
Exposure time: 24 h
Result: slight

1,4-cyclohexanedimethanol:
Species: Rabbit
Exposure time: 24 h
Result: none

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: No data available

Components:
4-methylcyclohexanemethanol:
Species: Rabbit
Result: Moderate

methanol:
Species: Rabbit
Result: slight to moderate

dimethyl 1,4-cyclohexanedicarboxylate:
Species: Rabbit
Result: slight
Remarks: Read-across from a similar material

1,4-cyclohexanediol:
Species: Rabbit
Result: Corrosive
Exposure time: 24 h

Respiratory or skin sensitization

Skin sensitization
May cause an allergic skin reaction.

Respiratory sensitization
Not classified based on available information.

Product:
Test Type: Skin sensitization
Species: Mouse
Result: positive
Remarks: National Toxicology Program Study

Test Type: Skin sensitization
Species: Guinea pig
Result: negative

Components:

4-methylcyclohexanemethanol:
Test Type: Skin sensitization
Species: Mouse
Result: Not a skin sensitizer.
Remarks: National Toxicology Program Study

methanol:
Test Type: Skin Sensitization
Species: Guinea pig
Result: non-sensitizing

dimethyl 1,4-cyclohexanedicarboxylate:
Species: Guinea pig
Result: Not a skin sensitizer.
Remarks: Read-across from a similar material

1,4-cyclohexanediol:
Test Type: OECD 406: Guinea pig sensitization
Species: Guinea pig
Result: Did not cause sensitization on laboratory animals.

Germ cell mutagenicity
Not classified based on available information.
Product:
Genotoxicity in vitro:
  Test Type: Ames test
  Metabolic activation: with and without metabolic activation
  Result: negative
  Remarks: National Toxicology Program Study

Genotoxicity in vivo:
  Test Type: Micronucleus test
  Species: Mouse
  Result: negative
  Remarks: National Toxicology Program Study

Components:
4-methylcyclohexanemethanol:
Genotoxicity in vitro:
  Test Type: Ames test
  Result: negative
  Remarks: National Toxicology Program Study

Genotoxicity in vivo:
  Test Type: Micronucleus test
  Species: Mouse
  Result: negative
  Remarks: National Toxicology Program Study

4-(methoxymethyl)cyclohexanemethanol:
Genotoxicity in vitro:
  Test Type: Ames test
  Result: negative
  Remarks: National Toxicology Program Study

dimethyl 1,4-cyclohexanedicarboxylate:
Genotoxicity in vitro:
  Test Type: Mutagenicity - Mammalian
  Metabolic activation: Metabolic activation
  Result: positive
  Test Type: Chromosome aberration test in vitro
  Metabolic activation: Metabolic activation
  Result: positive
  Test Type: Ames test
  Metabolic activation: with and without metabolic activation
  Result: negative
  Test Type: Ames test
Crude MCHM

Result: positive
Remarks: National Toxicology Program Study

1,4-cyclohexanediol:

Genotoxicity in vitro:
Test Type: Mutagenicity - Mammalian
Metabolic activation: +/- activation
Method: In vitro Mammalian Cell Gene Mutation Test
Result: negative

Test Type: Ames test
Result: negative
Remarks: National Toxicology Program Study

Genotoxicity in vivo:
Species: Rat
Application Route: oral: gavage
Method: Mammalian Bone Marrow Chromosome Aberration Test
Result: negative

Carcinogenicity
Not classified based on available information.

Product:
Remarks: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Carcinogenicity - Assessment:
Remarks: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

Reproductive toxicity
Suspected of damaging the unborn child.

Product:
Effects on fertility: Remarks: No data available

Components:

4-methylcyclohexanemethanol:
Effects on fertility: General Toxicity Parent: NOEL: 50 mg/kg body weight
General Toxicity F1: NOEL: 200 mg/kg body weight
Method: OECD Test No. 414: Prenatal Developmental Toxicity Study
Remarks: National Toxicology Program Study
dimethyl 1,4-cyclohexanedicarboxylate:
Effects on fertility: Species: Rat, female
Application Route: Ingestion
General Toxicity Parent: NOAEL: 1,124 mg/kg body weight
Method: OECD Test Guideline 421

1,4-cyclohexanedicarboxylate:
Effects on fertility: Species: Rat, female
Application Route: Ingestion
General Toxicity Parent: NOAEL: 1,124 mg/kg body weight
Method: OECD Test Guideline 421

1,4-cyclohexanedicarboxylate:
Effects on fertility: Species: Rat, male and female
Application Route: Ingestion
General Toxicity Parent: NOAEL: 479 mg/kg body weight
Method: OECD Test Guideline 421

STOT-single exposure
Not classified based on available information.

Product:
Assessment: Not classified
Remarks: Not classified

Components:
methanol:
Target Organs: optic nerve, Central nervous system
Assessment: Causes damage to organs.

dimethyl 1,4-cyclohexanedicarboxylate:
Assessment: Not classified

1,4-cyclohexanedicarboxylate:
Assessment: Not classified

STOT-repeated exposure
Not classified based on available information.

Product:
Assessment: Not classified
Remarks: Not classified

Components:
dimethyl 1,4-cyclohexanedicarboxylate:
Assessment: Not classified

1,4-cyclohexanedicarboxylate:
Assessment: Not classified
Repeated dose toxicity

**Product:**
Species: Rat  
NOAEL: 2,000 mg/kg  
Application Route: Dermal Study  
Exposure time: 14 days

**Components:**

4-methylcyclohexanemethanol:
Species: Rat  
Application Route: Oral Study  
Exposure time: 28 days

dimethyl 1,4-cyclohexanedicarboxylate:
Species: Rat, male  
Application Route: Oral Study  
Exposure time: 30 d  
Remarks: Read-across from a similar material  
Species: Rat, female  
Application Route: Oral Study  
Exposure time: 30 d  
Remarks: Read-across from a similar material

1,4-cyclohexanedimethanol:
Species: Rat, male  
Application Route: in drinking water  
Exposure time: 90 d  
Species: Rat, female  
Application Route: in drinking water  
Exposure time: 90 h

Aspiration toxicity
Not classified based on available information.

**Product:**
No data available

Information on likely routes of exposure

**Product:**
Inhalation: Remarks: None known.
Skin contact: Remarks: Causes skin irritation.

Eye contact: Remarks: Causes serious eye irritation.

Ingestion: Remarks: Harmful if swallowed.

Further information

Product:
Test Type: Human Birthweight Study
Remarks: No meaningful differences in birthweights. West Virginia Department of Health & Human Resources, Bureau for Public Health in conjunction with CDC and ATSDR

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 57.4 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (daphnid): 98.1 mg/l Exposure time: 48 h

Components:

methanol:
Toxicity to fish: LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h

Toxicity to algae/aquatic plants: EC50 (Pseudokirchneriella subcapitata (algae)): 22,000 mg/l Exposure time: 96 h

dimethyl 1,4-cyclohexanedicarboxylate:
Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 23 mg/l Exposure time: 96 h Remarks: Read-across from a similar material

Toxicity to daphnia and other aquatic invertebrates: LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Read-across from a similar material

Toxicity to algae/aquatic plants: EC50 (Chlorella pyrenoidosa): > 124.6 mg/l Exposure time: 72 h
NOEC: (Chlorella pyrenoidosa): > 124.6 mg/l
Exposure time: 72 h

1,4-cyclohexanedimethanol:
Toxicity to fish : LC50 (Fish): > 125.3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Chlorella pyrenoidosa): > 122.9 mg/l
Exposure time: 72 h

NOEC: (Chlorella pyrenoidosa): >= 122.9 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): >= 125.3 mg/l

Persistence and degradability

Product:
Biodegradability : Result: Inherently biodegradable.

Biochemical Oxygen Demand (BOD):
BOD-5: 70 mg/g
BOD-20: 1,300 mg/g

Chemical Oxygen Demand (COD):
2,450 mg/g

BOD/COD:
BOD/COD: 2.8 %

Components:

methanol:
Biodegradability : Concentration: 10 mg/l
Biodegradation: 95 %
Exposure time: 20 d

Biochemical Oxygen Demand (BOD):
BOD-5: 770 mg/g
Incubation time: 5 d
BOD-20: 1,260 mg/g
Incubation time: 20 d

Chemical Oxygen Demand : 1,410 mg/g
BOD/COD: BOD/COD: 54.6 %

ThOD: 1,500 mg/g

BOD/ThOD: 51.3 %

dimethyl 1,4-cyclohexanedicarboxylate:
Biodegradability: Biodegradation: 55 %
Exposure time: 28 d
Remarks: Not readily biodegradable.

1,4-cyclohexanediethanol:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 99.2 %
Exposure time: 28 d
Method: Ready Biodegradability: DOC Die Away Test

Biochemical Oxygen Demand (BOD): BOD-5:
25 mg/g

BOD-20:
1,400 mg/g

Chemical Oxygen Demand (COD): 2,400 mg/g

Bioaccumulative potential

Components:

methanol:
Partition coefficient: n-octanol/water: Pow: 0.17
log Pow: -0.77

dimethyl 1,4-cyclohexanedicarboxylate:
Bioaccumulation: Remarks: Bioaccumulation is unlikely.
Partition coefficient: n-octanol/water: log Pow: 2.29

1,4-cyclohexanediethanol:
Bioaccumulation: Bioconcentration factor (BCF): 4.45
Method: estimated
Partition coefficient: n-octanol/water: log Pow: 0.36 - 1.47 (77 °F / 25 °C)
Mobility in soil

**Components:**

1,4-cyclohexanedimethanol:

Distribution among environmental compartments: 
log Koc: 0.499 - 1.6
Method: QSAR model

Other adverse effects

**Product:**

Ozone-Depletion Potential: 
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**Components:**

1,4-cyclohexanedimethanol:

Results of PBT and vPvB assessment: 
Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues: 
Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

**International Regulations**

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

**Domestic regulation**

49 CFR
Not regulated as a dangerous good
SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component TPQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 311/312 Hazards</td>
<td>: Acute Health Hazard</td>
<td></td>
</tr>
<tr>
<td>SARA 313</td>
<td>: The following components are subject to reporting levels established by SARA Title III, Section 313:</td>
<td></td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
| methanol | 67-56-1 | 1 % |

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

| methanol | 67-56-1 | >= 1 - < 5 % |

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

| methanol | 67-56-1 |

Pennsylvania Right To Know

| 4-methylcyclohexanemethanol | 34885-03-5 |
| 4-(methoxymethyl)cyclohexanemethanol | 98955-27-2 |
| Water | 7732-18-5 |
| methyl 4-methylcyclohexanecarboxylate | 51181-40-9 |
| methanol | 67-56-1 |

New Jersey Right To Know

| 4-methylcyclohexanemethanol | 34885-03-5 |
| 4-(methoxymethyl)cyclohexanemethanol | 98955-27-2 |
| Water | 7732-18-5 |
| methyl 4-methylcyclohexanecarboxylate | 51181-40-9 |
| methanol | 67-56-1 |
| dimethyl 1,4-cyclohexanedicarboxylate | 94-60-0 |
| 1,4-cyclohexanedimethanol | 105-08-8 |
SAFETY DATA SHEET

Crude MCHM

The ingredients of this product are reported in the following inventories:

- **CH INV**: On the inventory, or in compliance with the inventory
- **DSL**: This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
- **TSCA**: On TSCA Inventory

**TSCA list**
No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION**

Further information

**NFPA 704:**

- Flammability
- Health
- Instability

**HMIS® IV:**

- HEALTH: 2
- FLAMMABILITY: 1
- PHYSICAL HAZARD: 0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The “*” represents a chronic hazard, while the “/” represents the absence of a chronic hazard.

**Full text of other abbreviations**

- **ACGIH**: USA. ACGIH Threshold Limit Values (TLV)
- **NIOSH REL**: USA. NIOSH Recommended Exposure Limits
- **OSHA P0**: USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- **OSHA Z-1**: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- **ACGIH / TWA**: 8-hour, time-weighted average
- **ACGIH / STEL**: Short-term exposure limit
- **NIOSH REL / TWA**: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- **NIOSH REL / ST**: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- **OSHA P0 / TWA**: 8-hour time weighted average
- **OSHA P0 / STEL**: Short-term exposure limit
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.