

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 12/22/2020 Version: 1.0

### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : UCMR 5 556.1 Aldehydes Mix

Product code AL0-101818

Recommended use and restrictions on use

No additional information available

Phenova

6390 Joyce Dr. Suite 100

Golden, CO 80403 - United States T 1-866-942-2978 - F 1-866-283-0269

info@phenova.com - www.phenova.com

1.4. Emergency telephone number

**Emergency number** : ChemTel Assistance (US/Canada) 1-800-255-3924

ChemTel Assistance (International) +1 813-248-0585

#### SECTION 2: Hazard(s) identification

#### **GHS US classification**

Flammable liquids H224 Extremely flammable liquid and vapor

Category 1

Acute toxicity (oral) H301 Toxic if swallowed

Category 3

Acute toxicity (dermal) H311 Toxic in contact with skin

Category 3

Skin sensitization, Category H317 May cause an allergic skin reaction

Carcinogenicity Category

H350

May cause cancer

Specific target organ

H370

Causes damage to organs

toxicity (single exposure)

Category 1

1A

Full text of H statements: see section 16

### GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)









Signal word (GHS US) : Danger

: H224 - Extremely flammable liquid and vapor Hazard statements (GHS US)

H301+H311 - Toxic if swallowed or in contact with skin

H317 - May cause an allergic skin reaction

H350 - May cause cancer

H370 - Causes damage to organs

Precautionary statements (GHS US) P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P310 - If swallowed: Immediately call a poison center or 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.

P307+P311 - If exposed: Call a poison center/doctor.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label). P322 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

| Name                        | Product identifier | Conc. |
|-----------------------------|--------------------|-------|
| methanol<br>(Component)     | (CAS-No.) 67-56-1  | 99.8  |
| acetaldehyde<br>(Component) | (CAS-No.) 75-07-0  | 0.1   |
| formaldehyde<br>(Component) | (CAS-No.) 50-00-0  | 0.1   |

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

|      |    |        | 4.0    | 0.01    |       |          |  |
|------|----|--------|--------|---------|-------|----------|--|
| 4.1. | ШÞ | escrin | tion c | ot tirs | t aid | measures |  |

First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

#### **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

No additional information available

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#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up in absorbent material. Collect spillage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Hygiene measures : Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated

clothing. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use. Keep container tightly closed and in a well-ventilated

place. Keep away from any flames or sparking source.

Incompatible materials : Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| UCMR 5 556.1 Aldehydes Mix |                                |                                      |
|----------------------------|--------------------------------|--------------------------------------|
| ACGIH                      | Local name                     | Methanol                             |
| ACGIH                      | ACGIH TWA (ppm)                | 200 ppm                              |
| ACGIH                      | ACGIH STEL (ppm)               | 250 ppm                              |
| ACGIH                      | Remark (ACGIH)                 | Headache; eye dam; dizziness; nausea |
| ACGIH                      | Regulatory reference           | ACGIH 2018                           |
| OSHA                       | OSHA PEL (TWA) (mg/m³)         | 260 mg/m³                            |
| OSHA                       | OSHA PEL (TWA) (ppm)           | 200 ppm                              |
| OSHA                       | Regulatory reference (US-OSHA) | OSHA                                 |

| acetaldehyde (75-07-0) |                     |              |
|------------------------|---------------------|--------------|
| ACGIH                  | Local name          | Acetaldehyde |
| ACGIH                  | ACGIH Ceiling (ppm) | 25 ppm       |

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| acetaldehyde (75-0 | 07-0)                          |   |
|--------------------|--------------------------------|---|
| ACGIH              | Remark (ACGIH)                 | Eye & URT irr; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans) |
| ACGIH              | Regulatory reference           | ACGIH 2018  |
| OSHA               | OSHA PEL (TWA) (mg/m³)         | 360 mg/m³   |
| OSHA               | OSHA PEL (TWA) (ppm)           | 200 ppm   |
| OSHA               | Regulatory reference (US-OSHA) | OSHA  |
| formaldehyde (50-  | 00-0)                          |   |
| ACGIH              | Local name                     | Formaldehyde  |
| ACGIH              | ACGIH TWA (ppm)                | 0.1 ppm   |
| ACGIH              | ACGIH STEL (ppm)               | 0.3 ppm   |
| ACGIH              | Remark (ACGIH)                 | URT & eye irr; URT cancer; DSEN; RSEN; A1 (Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiologic studies)  |
| ACGIH              | Regulatory reference           | ACGIH 2018  |
| methanol (67-56-1) |                                |   |
| ACGIH              | Local name                     | Methanol  |
| ACGIH              | ACGIH TWA (ppm)                | 200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)  |
| ACGIH              | ACGIH STEL (ppm)               | 250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)  |
| ACGIH              | Remark (ACGIH)                 | Headache; eye dam; dizziness; nausea  |
| ACGIH              | Regulatory reference           | ACGIH 2018  |
| OSHA               | OSHA PEL (TWA) (mg/m³)         | 260 mg/m³   |
| OSHA               | OSHA PEL (TWA) (ppm)           | 200 ppm   |
| OSHA               | Regulatory reference (US-OSHA) | OSHA  |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

#### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

### Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

### Respiratory protection:

Wear appropriate mask

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#### Personal protective equipment symbol(s):







#### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

: Colorless

characteristic

Odor threshold : No data available

pH : No data available

Melting point : No data available Freezing point : No data available

Boiling point : No data available

Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Non flammable.

Vapor pressure : No data available

Relative vapor density at 20  $^{\circ}\text{C}$   $\phantom{0}$  : No data available

Relative density : No data available Solubility : No data available

Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosion limits : No data available Explosive properties : No data available

Oxidizing properties : No data available

9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

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SECTION 11: Toxicological information

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| ffects                    |
|---------------------------|
| : Not classified          |
|                           |
| 100.2 mg/kg body weight   |
| 300.601 mg/kg body weight |
| f                         |

| ATE US (dermal)            | 300.601 mg/kg body weight        |
|----------------------------|----------------------------------|
| acetaldehyde (75-07-0)     |                                  |
| LD50 dermal rabbit         | 3540 mg/kg (Rabbit, Dermal)      |
| LC50 inhalation rat (mg/l) | 24 mg/l (4 h, Rat, Inhalation)   |
| LC50 inhalation rat (ppm)  | 13300 ppm (4 h, Rat, Inhalation) |
| ATE US (dermal)            | 3540 mg/kg body weight           |
| ATE US (vapors)            | 24 mg/l/4h                       |
| ATE US (dust, mist)        | 24 mg/l/4h                       |

| formaldehyde (50-00-0)    |   |
|---------------------------|---|
| LD50 dermal rabbit        | 270 mg/kg (Rabbit, Dermal)  |
| LC50 inhalation rat (ppm) | 490 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (gases)) |
| ATE US (oral)             | 100 mg/kg body weight   |
| ATE US (dermal)           | 270 mg/kg body weight   |
| ATE US (gases)            | 700 ppmV/4h   |
| ATE US (vapors)           | 3 mg/l/4h   |
| ATE US (dust, mist)       | 0.5 mg/l/4h   |

| , ,                        |  |  |
|----------------------------|--|--|
| methanol (67-56-1)         |  |  |
| LD50 oral rat              | > 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence) |  |
| LD50 dermal rabbit         | 15800 mg/kg (Rabbit; Literature study)   |  |
| LC50 inhalation rat (mg/l) | 85 mg/l/4h (Rat; Literature study)   |  |
| LC50 inhalation rat (ppm)  | 64000 ppm/4h (Rat; Literature study)   |  |
| ATE US (oral)              | 100 mg/kg body weight  |  |
| ATE US (dermal)            | 300 mg/kg body weight  |  |
| ATE US (gases)             | 700 ppmV/4h  |  |
| ATE US (vapors)            | 3 mg/l/4h  |  |
| ATE US (dust, mist)        | 0.5 mg/l/4h  |  |

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : May cause cancer.

| acetaldehyde (75-07-0)                   |  |
|--|--|
| IARC group                               | 2B - Possibly carcinogenic to humans, 1 - Carcinogenic to humans |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen                    |
| formaldehyde (50-00-0)                   |  |
| National Toxicology Program (NTP) Status | Known Human Carcinogens  |

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

STOT-single exposure : Causes damage to organs.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

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Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

| acetaldehyde (75-07-0) |  |
|------------------------|--|
| LC50 fish 1            | 30.8 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)  |
| EC50 Daphnia 1         | 48.3 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)  |
| ErC50 (algae)          | 237 – 249 mg/l (5 day(s), Diatomeae, Static system, Fresh water, Experimental value)   |
| formaldehyde (50-00-0) |  |
| LC50 fish 1            | 6.7 mg/l (Other, 96 h, Morone saxatilis, Static system, Salt water, Experimental value, Nominal concentration)                           |
| EC50 Daphnia 1         | 5.8 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia pulex, Static system, Fresh water, Experimental value)          |
| ErC50 (algae)          | 4.89 – 6.61 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value) |
| methanol (67-56-1)     |  |
| LC50 fish 1            | 15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through system; Fresh water; Experimental value)                   |
| EC50 Daphnia 1         | > 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)                                   |
| LC50 fish 2            | 10800 mg/l (LC50; 96 h; Salmo gairdneri)   |

### 12.2. Persistence and degradability

UCMR 5 556.1 Aldehydes Mix

| Persistence and degradability   | Not established.                |  |
|---------------------------------|---------------------------------|--|
| acetaldehyde (75-07-0)          |                                 |  |
| Persistence and degradability   | Readily biodegradable in water. |  |
| Biochemical oxygen demand (BOD) | 1.27 g O₂/g substance           |  |
| ThOD                            | 1.82 g O₂/g substance           |  |
| BOD (% of ThOD)                 | 0.7                             |  |
| formaldehyde (50-00-0)          |                                 |  |

| formaldehyde (50-00-0)          |                                 |  |
|---------------------------------|---------------------------------|--|
| Persistence and degradability   | Readily biodegradable in water. |  |
| Biochemical oxygen demand (BOD) | 0.64 g O₂/g substance           |  |
| Chemical oxygen demand (COD)    | 1.06 g O₂/g substance           |  |
| ThOD                            | 1.068 g O₂/g substance          |  |
| BOD (% of ThOD)                 | 0.6                             |  |

| methanol (67-56-1)              |   |
|---------------------------------|---|
| Persistence and degradability   | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. |
| Biochemical oxygen demand (BOD) | 0.6 – 1.12 g O₂/g substance   |
| Chemical oxygen demand (COD)    | 1.42 g O₂/g substance   |
| ThOD                            | 1.5 g O₂/g substance  |
| BOD (% of ThOD)                 | 0.8 (Literature study)  |

### 12.3. Bioaccumulative potential

| UCMR 5 556.1 Aldehydes Mix                      |  |  |  |
|---|--|--|--|
| Bioaccumulative potential Not established.      |  |  |  |
| acetaldehyde (75-07-0)                          |  |  |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.63 (Experimental value)                                      |  |  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).               |  |  |
| formaldehyde (50-00-0)                          |  |  |  |
| BCF fish 1                                      | < 1 (1 h, Flow-through system, Salt water, Weight of evidence) |  |  |
| Partition coefficient n-octanol/water (Log Pow) | 0.35 (Calculated)  |  |  |

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| formaldehyde (50-00-0)                          |  |  |
|---|--|--|
| Bioaccumulative potential                       | Low potential for bioaccumulation (BCF < 500). |  |
| methanol (67-56-1)                              |  |  |
| BCF fish 1                                      | < 10 (BCF; 72 h; Leuciscus idus)               |  |
| Partition coefficient n-octanol/water (Log Pow) | -0.77 (Experimental value; Other)              |  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (BCF < 500). |  |

### 12.4. Mobility in soil

| acetaldehyde (75-07-0)                          |   |  |
|---|---|--|
| Surface tension                                 | 0.021 N/m (20 °C)                                     |  |
| Ecology - soil                                  | No (test)data on mobility of the substance available. |  |
| formaldehyde (50-00-0)                          |   |  |
| Surface tension                                 | 73 mN/m (20 °C, Aqueous solution, 7.5 g/l)            |  |
| Partition coefficient n-octanol/water (Log Koc) | 1.202 (log Koc, Calculated value)                     |  |
| Ecology - soil                                  | Not applicable (gas). Toxic to flora.                 |  |
| methanol (67-56-1)                              |   |  |
| Surface tension                                 | 0.023 N/m (20 °C)                                     |  |
| Partition coefficient n-octanol/water (Log Koc) | Koc,PCKOCWIN v1.66; 1; Calculated value               |  |

#### 12.5. Other adverse effects

| UCMR 5 556.1 Aldehydes Mix |  |  |
|----------------------------|--|--|
|                            |  |  |
| acetaldehyde (75-07-0)     |  |  |
|                            |  |  |
| formaldehyde (50-00-0)     |  |  |
|                            |  |  |
| methanol (67-56-1)         |  |  |
|                            |  |  |

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description : UN1992 Flammable liquids, toxic, n.o.s. (methanol; acetaldehyde; formaldehyde), 3 (6.1), I

UN-No.(DOT) : UN1992

Proper Shipping Name (DOT) : Flammable liquids, toxic, n.o.s.

methanol; acetaldehyde; formaldehyde

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT) : I - Great Danger

Subsidiary risk (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) : 3 - Flammable liquid

6.1 - Poison





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DOT Packaging Non Bulk (49 CFR 173.xxx) . 201 DOT Packaging Bulk (49 CFR 173.xxx) : 243

**DOT Symbols** G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) T14 - 6 6 mm Prohibited 178.275(q)(3).

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : None DOT Quantity Limitations Passenger aircraft/rail : Forbidden

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.

**DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters"

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

#### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol; acetaldehyde; formaldehyde), 3

(6.1), I

UN-No. (IMDG) : 1992

Proper Shipping Name (IMDG) : FLAMMABLE LIQUID, TOXIC, N.O.S.

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : I - substances presenting high danger

Subsidiary risks (IMDG) : 6.1 - Toxic substances

Limited quantities (IMDG) : 0

#### Air transport

Transport document description (IATA) : UN 1992 Flammable liquid, toxic, n.o.s. (methanol; acetaldehyde; formaldehyde), 3 (6.1), I

UN-No. (IATA) : 1992

Proper Shipping Name (IATA) : Flammable liquid, toxic, n.o.s. Class (IATA) : 3 - Flammable Liquids Packing group (IATA) : I - Great Danger Subsidiary hazards (IATA) : 6.1 - Toxic substances

### **SECTION 15: Regulatory information**

15.1. US Federal regulation

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

|              | \ | • |      |
|--------------|---|---|------|
| acetaldehyde |   | CAS-No. 75-07-0                         | 0.1% |

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| acetaldehyde (75-07-0)  | acetaldehyde (75-07-0)  |  |  |  |
|---|---|--|--|--|
|   | Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 |  |  |  |
| Listed on EPA Hazardous Air Pollutant (HAPS)  |   |  |  |  |
| EPA TSCA Regulatory Flag  | T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.  |  |  |  |
| CERCLA RQ   | 1000 lb   |  |  |  |
| formaldehyde (50-00-0)  |   |  |  |  |
|   | Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 |  |  |  |
| Listed on EPA Hazardous Air Pollutant (HAPS)  |   |  |  |  |
| CERCLA RQ   | 100 lb  |  |  |  |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)  | 100 lb  |  |  |  |
| SARA Section 302 Threshold Planning Quantity (TPQ)  500 lb  |   |  |  |  |
| methanol (67-56-1)  |   |  |  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 |   |  |  |  |
| Listed on EPA Hazardous Air Pollutant (HAPS)  |   |  |  |  |
| CERCLA RQ   | LA RQ 5000 lb   |  |  |  |

#### 15.2. International regulations

#### **CANADA**

### acetaldehyde (75-07-0)

Listed on the Canadian DSL (Domestic Substances List)

### formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Substances List)

### methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

### **National regulations**

#### acetaldehyde (75-07-0)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on EPA Hazardous Air Pollutant (HAPS)

### formaldehyde (50-00-0)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on EPA Hazardous Air Pollutant (HAPS)

### methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

### 15.3. US State regulations

| acetaldehyde (75-07-0)   |   |   |   |                                  |  |
|--|---|---|---|----------------------------------|--|
| U.S<br>California -<br>Proposition 65<br>- Carcinogens<br>List | U.S California -<br>Proposition 65 -<br>Developmental<br>Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive<br>Toxicity - Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity<br>- Male | No significant risk level (NSRL) | Maximum allowable<br>dose level (MADL) |
| Yes  | No  | No  | No  | 90 μg/day                        |  |

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| formaldehyde (50-00-0)   |   |   |   |                                  |   |
|--|---|---|---|----------------------------------|---|
| U.S<br>California -<br>Proposition 65<br>- Carcinogens<br>List | U.S California -<br>Proposition 65 -<br>Developmental<br>Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive<br>Toxicity - Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity<br>- Male | No significant risk level (NSRL) | Maximum allowable<br>dose level (MADL)                |
| Yes  | No  | No  | No  | 40 μg/day                        |   |
| methanol (67-56  | 5-1)  |   |   |                                  |   |
| U.S<br>California -<br>Proposition 65<br>- Carcinogens<br>List | U.S California -<br>Proposition 65 -<br>Developmental<br>Toxicity | U.S California -<br>Proposition 65 -<br>Reproductive<br>Toxicity - Female | U.S California -<br>Proposition 65 -<br>Reproductive Toxicity<br>- Male | No significant risk level (NSRL) | Maximum allowable<br>dose level (MADL)                |
| No   | Yes   | No  | No  |                                  | 47000 μg/day<br>(inhalation); 23,000<br>μg/day (oral) |

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None

#### Full text of H-phrases:

| H224 | Extremely flammable liquid and vapor |  |
|------|--------------------------------------|--|
| H301 | Toxic if swallowed                   |  |
| H311 | Toxic in contact with skin           |  |
| H317 | May cause an allergic skin reaction  |  |
| H350 | May cause cancer                     |  |
| H370 | Causes damage to organs              |  |

### Phenova US SDS REV

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