

# SAFETY DATA SHEET

Version 6.33  
Revision Date 05/05/2025  
Print Date 05/06/2025

## SECTION 1. IDENTIFICATION

### 1.1 Product identifiers

Product name : Japanese Indoor Air Standard Mix

Product Number : 47537-U

Brand : Supelco

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.  
3050 SPRUCE ST  
ST. LOUIS MO 63103  
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

### 1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-  
527-3887 CHEMTREC (International) 24  
Hours/day; 7 Days/week

## SECTION 2. HAZARDS IDENTIFICATION

### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 2

Acute toxicity (Oral) : Category 3

Acute toxicity : Category 3

(Inhalation)

Acute toxicity (Dermal) : Category 3

Specific target organ toxicity - single exposure : Category 1 (Eyes, Central nervous system)

### Other hazards

None known.

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.  
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.  
H370 Causes damage to organs (Eyes, Central nervous system).

Precautionary Statements :

#### Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

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

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

| Chemical name | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|---------------|-------------------|-----------------------|--------------|
| Methanol      | 67-56-1*          | >= 90 - <= 100        | -            |

\* Indicates that the identifier is a CAS No.  
Actual concentration is withheld as a trade secret

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### SECTION 4. FIRST AID MEASURES

General advice : First aiders need to protect themselves.  
Show this material safety data sheet to the doctor in attendance.

If inhaled : After inhalation: fresh air. Immediately call in physician.  
If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.  
Call in ophthalmologist.  
Remove contact lenses.

If swallowed : After swallowing: fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage).

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Call a doctor immediately (mention methanol ingestion). Only in exceptional cases, if no medical care is available within one hour, induce vomiting (only in fully conscious persons) and make victim drink ethanol again (approx. 0.3 ml of a 40% alcoholic beverage/kg body weight/hour).

- Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- Protection of first-aiders : For personal protection see section 8.
- Notes to physician : No data available

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## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Unsuitable extinguishing media : For this substance/mixture no limitations of extinguishing agents are given.
- Specific hazards during fire fighting : Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

Forms explosive mixtures with air at ambient temperatures.

- Hazardous combustion products : Carbon oxides
- Specific extinguishing methods : No data available

|                                                |                                                                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Further information                            | : Remove container from danger zone and cool with water.<br>Prevent fire extinguishing water from contaminating surface water or the ground water system.       |
| Special protective equipment for fire-fighters | : Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. |

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Advice for non-emergency personnel:<br>Do not breathe vapors, aerosols.<br>Avoid substance contact.<br>Ensure adequate ventilation.<br>Keep away from heat and sources of ignition.<br>Evacuate the danger area, observe emergency procedures, consult an expert.<br>Advice for emergency responders:<br>For personal protection see section 8. |
| Environmental precautions                                           | : Do not let product enter drains.<br>Risk of explosion.                                                                                                                                                                                                                                                                                          |
| Methods and materials for containment and cleaning up               | : Cover drains. Collect, bind, and pump off spills.<br>Observe possible material restrictions (see sections 7 and 10).<br>Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.                                                                                                        |

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## SECTION 7. HANDLING AND STORAGE

For precautions see section 2.2.

|                                                 |                                                                                                                                                                                                         |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : Keep away from open flames, hot surfaces and sources of ignition.<br>Take precautionary measures against static discharge.                                                                            |
| Advice on safe handling                         | : Work under hood. Do not inhale substance/mixture.<br>Avoid generation of vapours/aerosols.                                                                                                            |
| Further information on storage conditions       | : Keep container tightly closed in a dry and well-ventilated place.<br>Keep away from heat and sources of ignition.<br>Keep locked up or in an area accessible only to qualified or authorized persons. |

Storage class : 3, Flammable liquids

Recommended storage temperature : 36 - 46 °F / 2 - 8 °C

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components | CAS-No. | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|------------|---------|----------------------------------|---------------------------------------------------|-----------|
| Methanol   | 67-56-1 | TWA                              | 200 ppm                                           | ACGIH     |
|            |         | STEL                             | 250 ppm                                           | ACGIH     |
|            |         | ST                               | 250 ppm<br>325 mg/m <sup>3</sup>                  | NIOSH REL |
|            |         | TWA                              | 200 ppm<br>260 mg/m <sup>3</sup>                  | NIOSH REL |
|            |         | TWA                              | 200 ppm<br>260 mg/m <sup>3</sup>                  | OSHA Z-1  |

### Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time                                               | Permissible concentration | Basis        |
|------------|---------|--------------------|---------------------|-------------------------------------------------------------|---------------------------|--------------|
| Methanol   | 67-56-1 | Methanol           | Urine               | End of shift<br>(As soon as possible after exposure ceases) | 15 mg/l                   | ACGIH<br>BEI |

**Engineering measures** : No data available

### Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Recommended Filter type: : Filter type ABEK

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The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Hand protection

Remarks : required

Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).  
Safety glasses

Skin and body protection : Flame retardant antistatic protective clothing.

Hygiene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : colorless

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point : No data available

Boiling point/boiling range : No data available

Flash point : 49.5 °F / 9.7 °C  
(10 hPa)  
Method: Regulation (EC) No. 440/2008, Annex, A.9,  
closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| Burning rate                                        | : No data available            |
| Upper explosion limit /<br>Upper flammability limit | : No data available            |
| Lower explosion limit /<br>Lower flammability limit | : No data available            |
| Vapor pressure                                      | : No data available            |
| Relative vapor density                              | : No data available            |
| Relative density                                    | : No data available            |
| Density                                             | : No data available            |
| Water solubility                                    | : No data available            |
| Partition coefficient: n-<br>octanol/water          | : No data available            |
| Autoignition temperature                            | : No data available            |
| Decomposition<br>temperature                        | : No data available            |
| Viscosity, dynamic                                  | : No data available            |
| Viscosity, kinematic                                | : No data available            |
| Flow time                                           | : No data available            |
| Explosive properties                                | : Not classified as explosive. |
| Oxidizing properties                                | : none                         |
| Particle characteristics<br>Particle size           | : No data available            |

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## SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| Reactivity                         | : Vapors may form explosive mixture with air.                                             |
| Chemical stability                 | : The product is chemically stable under standard ambient conditions (room temperature) . |
| Possibility of hazardous reactions | : No data available                                                                       |
| Conditions to avoid                | : Warming.                                                                                |

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition : In the event of fire: see section 5 products

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## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Mixture

##### Acute toxicity

Oral: No data available

Acute toxicity estimate Inhalation - 4 h - 3.3 mg/l - vapor(Calculation method)

Dermal: No data available

##### Skin corrosion/irritation

No data available

##### Serious eye damage/eye irritation

No data available

##### Respiratory or skin sensitization

No data available

##### Germ cell mutagenicity

No data available

##### Carcinogenicity

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.

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.

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

##### Reproductive toxicity

No data available

##### Specific target organ toxicity - single exposure

Mixture causes damage to organs. - Eyes, Central nervous system

##### Specific target organ toxicity - repeated exposure

No data available

##### Aspiration hazard

No data available

### 11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

## Components

### Methanol

#### Acute toxicity

Acute toxicity estimate Oral - 100.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Nausea, Vomiting

Acute toxicity estimate Inhalation - 4 h - 3.1 mg/l - vapor

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Symptoms: Irritation symptoms in the respiratory tract.

Acute toxicity estimate Dermal - 300.1 mg/kg

(Expert judgment)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Remarks: (ECHA)

Remarks: Drying-out effect resulting in rough and chapped skin.

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA)

#### Respiratory or skin sensitization

Sensitisation test: - Guinea pig

Result: negative

(OECD Test Guideline 406)

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male and female - Bone marrow

Result: negative

#### Carcinogenicity

Did not show carcinogenic effects in animal experiments.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**

Causes damage to organs. - Eyes, Central nervous system

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute oral toxicity - Nausea, Vomiting

Acute inhalation toxicity - Irritation symptoms in the respiratory tract.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Methanol:**

|                                                     |                                                                                                                                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 ( <i>Lepomis macrochirus</i> (Bluegill)): 15,400.0 mg/l<br>End point: mortality<br>Exposure time: 96 h<br>Test Type: flow-through test<br>Analytical monitoring: yes<br>Method: US-EPA |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 ( <i>Daphnia magna</i> (Water flea)): 18,260 mg/l<br>End point: Immobilization<br>Exposure time: 96 h<br>Test Type: semi-static test<br>Method: OECD Test Guideline 202                |
| Toxicity to algae/aquatic plants                    | : ErC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): ca. 22,000.0 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 201                        |
| Toxicity to fish (Chronic toxicity)                 | : NOEC ( <i>Oryzias latipes</i> (Orange-red killifish)): 7,900 mg/l<br>Exposure time: 200 h<br>Remarks: (External MSDS)                                                                       |
| Toxicity to microorganisms                          | : IC50 (activated sludge): > 1,000 mg/l<br>Exposure time: 3 h<br>Test Type: static test<br>Analytical monitoring: yes<br>Method: OECD Test Guideline 209                                      |

## Persistence and degradability

### Components:

#### **Methanol:**

|                                 |                                                                                                                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability                | : Result: Readily biodegradable.<br>Biodegradation: 99 %<br>Exposure time: 30 d<br>Method: OECD Test Guideline 301D                                                                                      |
| Biochemical Oxygen Demand (BOD) | : 600 - 1,120 mg/g<br>Incubation time: 5 d<br>Remarks: (IUCLID)                                                                                                                                          |
| Chemical Oxygen Demand (COD)    | : 1,420 mg/g<br>Remarks: (IUCLID)                                                                                                                                                                        |
| ThOD                            | : 1,500 mg/g<br>Remarks: (Lit.)                                                                                                                                                                          |
| BOD/ThOD                        | : 76 %<br>Remarks: Closed Bottle test<br>(IUCLID)                                                                                                                                                        |
| Stability in water              | : Hydrolysis: 83 - 91 % at 19 °C(72 h)<br>Remarks: Hydrolyzes on contact with water.<br>Hydrolyzes readily.<br><br>Degradation half life: 2.2 yr<br>Remarks: reaction with hydroxyl radicals<br>(IUCLID) |
| Photodegradation                | : Degradation (direct photolysis): 50 % Degradation<br>half life: 17.2 d                                                                                                                                 |

## Bioaccumulative potential

### Components:

#### **Methanol:**

|                                        |                                                                                                                                                       |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bioaccumulation                        | : Species: Cyprinus carpio (Carp)<br>Bioconcentration factor (BCF): 1.0<br>Exposure time: 72 d<br>Temperature: 68 °F / 20 °C<br>Concentration: 5 mg/l |
| Partition coefficient: n-octanol/water | : log Pow: -0.77 (77 °F / 25 °C)<br>Method: (experimental)<br>Remarks: (HSDB)<br>Bioaccumulation is not expected.                                     |

## **Mobility in soil**

### **Components:**

#### **Methanol:**

Stability in soil : Remarks: Will not adsorb on soil.

## **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:**

#### **Methanol:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Additional ecological information : Avoid release to the environment.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

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## **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

#### **IATA-DGR**

UN/ID No. : UN 1230  
Proper shipping name : Methanol  
Class : 3  
Subsidiary risk : 6.1  
Packing group : II  
Labels : Class 3 - Flammable liquids, Division 6.1 - Toxic substances  
Packing instruction (cargo : 364  
aircraft)  
Packing instruction : 352

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(passenger aircraft)

**IMDG-Code**

UN number : UN 1230  
Proper shipping name : METHANOL

Class : 3  
Subsidiary risk : 6.1  
Packing group : II  
Labels : 3 (6.1)  
EmS Code : F-E, S-D  
Marine pollutant : no

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**National regulation****49 CFR Road**

UN/ID/NA number : UN 1230  
Proper shipping name : Methanol

Class : 3  
Packing group : II  
Labels : Class 3 - Flammable liquids  
ERG Code : 131  
Marine pollutant : no

Poison Inhalation Hazard : No

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

| Components            | CAS-No.  | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------------|----------|--------------------|-----------------------------|
| benzene               | 71-43-2  | 10                 | 10 (D018)                   |
| ethylbenzene          | 100-41-4 | 100                | 100 (F003)                  |
| n-butanol             | 71-36-3  | 100                | 100 (F003)                  |
| 1,4-dichlorobenzene   | 106-46-7 | 100                | 100 (D027)                  |
| 1,2-Dichloroethane    | 107-06-2 | 100                | 100 (D028)                  |
| 1,1,1-Trichloroethane | 71-55-6  | 10                 | 10 (F001)                   |
| Carbon tetrachloride  | 56-23-5  | 10                 | 10 (F001)                   |
| Tetrachlorethylene    | 127-18-4 | 10                 | 10 (F001)                   |
| 1,1,1-Trichloroethane | 71-55-6  | 10                 | 10 (F002)                   |
| Tetrachlorethylene    | 127-18-4 | 10                 | 10 (F002)                   |
| Carbon tetrachloride  | 56-23-5  | 10                 | 10 (D019)                   |

|                     |          |      |             |
|---------------------|----------|------|-------------|
| Chloroform          | 67-66-3  | 10   | 10 (D022)   |
| Tetrachlorethylene  | 127-18-4 | 100  | 100 (D039)  |
| trichloroethylene   | 79-01-6  | 100  | 100 (D040)  |
| Ethyl Methyl Ketone | 78-93-3  | 5000 | 5000 (D035) |
| Ethyl Methyl Ketone | 78-93-3  | 100  | 100 (F005)  |

#### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### **SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Chronic Health Hazard

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Methanol 67-56-1 >= 90 - <= 100 %

#### **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 112 (40 CFR 61):

Methanol 67-56-1 >= 90 - <= 100 %

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 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Methanol 67-56-1 >= 90 - <= 100 %

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

|                      |          |                |
|----------------------|----------|----------------|
| Toluene              | 108-88-3 | >= 0 - < 0.1 % |
| benzene              | 71-43-2  | >= 0 - < 0.1 % |
| p-xylene             | 106-42-3 | >= 0 - < 0.1 % |
| m-xylene             | 108-38-3 | >= 0 - < 0.1 % |
| o-xylene             | 95-47-6  | >= 0 - < 0.1 % |
| ethylbenzene         | 100-41-4 | >= 0 - < 0.1 % |
| 1,4-dichlorobenzene  | 106-46-7 | >= 0 - < 0.1 % |
| styrene              | 100-42-5 | >= 0 - < 0.1 % |
| 1,2-Dichloroethane   | 107-06-2 | >= 0 - < 0.1 % |
| 1,2-Dichloropropane  | 78-87-5  | >= 0 - < 0.1 % |
| Carbon tetrachloride | 56-23-5  | >= 0 - < 0.1 % |
| Chloroform           | 67-66-3  | >= 0 - < 0.1 % |
| trichloroethylene    | 79-01-6  | >= 0 - < 0.1 % |
| n-Butylacetate       | 123-86-4 | >= 0 - < 0.1 % |

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

|                      |          |                |
|----------------------|----------|----------------|
| Toluene              | 108-88-3 | >= 0 - < 0.1 % |
| benzene              | 71-43-2  | >= 0 - < 0.1 % |
| ethylbenzene         | 100-41-4 | >= 0 - < 0.1 % |
| styrene              | 100-42-5 | >= 0 - < 0.1 % |
| 1,2-Dichloroethane   | 107-06-2 | >= 0 - < 0.1 % |
| Carbon tetrachloride | 56-23-5  | >= 0 - < 0.1 % |
| Chloroform           | 67-66-3  | >= 0 - < 0.1 % |
| trichloroethylene    | 79-01-6  | >= 0 - < 0.1 % |
| n-Butylacetate       | 123-86-4 | >= 0 - < 0.1 % |

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

## US State Regulations

### Massachusetts Right To Know

|                      |           |
|----------------------|-----------|
| Methanol             | 67-56-1   |
| water                | 7732-18-5 |
| Dichloromethane      | 75-09-2   |
| benzene              | 71-43-2   |
| 1,4-dichlorobenzene  | 106-46-7  |
| styrene              | 100-42-5  |
| 1,2-Dichloroethane   | 107-06-2  |
| Carbon tetrachloride | 56-23-5   |
| Chloroform           | 67-66-3   |
| Tetrachlorethylene   | 127-18-4  |
| Bromodichloromethane | 75-27-4   |
| trichloroethylene    | 79-01-6   |

### Pennsylvania Right To Know

|                        |          |
|------------------------|----------|
| Methanol               | 67-56-1  |
| Dichloromethane        | 75-09-2  |
| acetone                | 67-64-1  |
| Toluene                | 108-88-3 |
| benzene                | 71-43-2  |
| p-xylene               | 106-42-3 |
| m-xylene               | 108-38-3 |
| o-xylene               | 95-47-6  |
| ethylbenzene           | 100-41-4 |
| 1,4-dichlorobenzene    | 106-46-7 |
| styrene                | 100-42-5 |
| 1,2-Dichloroethane     | 107-06-2 |
| 1,2-Dichloropropane    | 78-87-5  |
| 1,1,1-Trichloroethane  | 71-55-6  |
| Carbon tetrachloride   | 56-23-5  |
| Chloroform             | 67-66-3  |
| Tetrachlorethylene     | 127-18-4 |
| Bromodichloromethane   | 75-27-4  |
| 1,2,4-Trimethylbenzene | 95-63-6  |
| trichloroethylene      | 79-01-6  |
| Chlorodibromomethane   | 124-48-1 |
| ethyl acetate          | 141-78-6 |
| 2-Propanol             | 67-63-0  |

|                      |          |
|----------------------|----------|
| n-butanol            | 71-36-3  |
| Ethyl Methyl Ketone  | 78-93-3  |
| 4-methylpentan-2-one | 108-10-1 |
| n-Butylacetate       | 123-86-4 |

#### **Maine Chemicals of High Concern**

|            |           |
|------------|-----------|
| water      | 7732-18-5 |
| Toluene    | 108-88-3  |
| benzene    | 71-43-2   |
| styrene    | 100-42-5  |
| mesitylene | 108-67-8  |

#### **Vermont Chemicals of High Concern**

|                     |           |
|---------------------|-----------|
| water               | 7732-18-5 |
| Dichloromethane     | 75-09-2   |
| Toluene             | 108-88-3  |
| benzene             | 71-43-2   |
| ethylbenzene        | 100-41-4  |
| styrene             | 100-42-5  |
| mesitylene          | 108-67-8  |
| Tetrachlorethylene  | 127-18-4  |
| Ethyl Methyl Ketone | 78-93-3   |

#### **Washington Chemicals of High Concern**

|                     |           |
|---------------------|-----------|
| water               | 7732-18-5 |
| Dichloromethane     | 75-09-2   |
| Toluene             | 108-88-3  |
| benzene             | 71-43-2   |
| ethylbenzene        | 100-41-4  |
| styrene             | 100-42-5  |
| mesitylene          | 108-67-8  |
| Tetrachlorethylene  | 127-18-4  |
| Ethyl Methyl Ketone | 78-93-3   |

#### **California Prop. 65**

WARNING: This product can expose you to chemicals including Dichloromethane, benzene, ethylbenzene, 1,4-dichlorobenzene, styrene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,1,1-Trichloroethane, Carbon tetrachloride, Chloroform, Tetrachlorethylene, Bromodichloromethane, trichloroethylene, 4-methylpentan-2-one, which is/are known to the State of California to cause cancer, and Methanol, n-Hexane, Toluene, benzene, Chloroform, trichloroethylene, 4-methylpentan-2-one, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

#### **TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule:

|                   |         |                                    |
|-------------------|---------|------------------------------------|
| trichloroethylene | 79-01-6 | See 40 CFR § 721.10851; Final Rule |
|-------------------|---------|------------------------------------|

No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)                                                   |
| ACGIH BEI       | : ACGIH - Biological Exposure Indices (BEI)                                                 |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits                                                    |
| 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 Z-1 / TWA  | : 8-hour time weighted average                                                              |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and

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Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Revision Date : 05/05/2025

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