

# SAFETY DATA SHEET

Version 8.9 Revision Date 08/08/2025 Print Date 08/09/2025

#### **SECTION 1. IDENTIFICATION**

#### 1.1 Product identifiers

Product name : 1,4-Dichlorobenzene solution

Product Number : 40025 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 number

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

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(Inhalation)

Acute toxicity (Dermal) : Category 3

Carcinogenicity : Category 2

Specific target organ

toxicity - single exposure

: Category 1 (Eyes)

Short-term (acute)

aquatic hazard

: Category 3

Long-term (chronic)

aquatic hazard

: Category 3

#### Other hazards

None known.

## **GHS label elements**

Hazard pictograms







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact

with skin or if inhaled.

H351 Suspected of causing cancer. H370 Causes damage to organs (Eyes).

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

#### **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have

been read and understood.

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 dust/ fume/ gas/ mist/ vapours/

spray.

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.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ 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.

## **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	-
1,4-dichlorobenzene	106-46-7*	>= 0.1 - < 1	-

<sup>\*</sup> Indicates that the identifier is a CAS No.

## **SECTION 4. FIRST AID MEASURES**

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in

attendance.

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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). 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

#### **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable extinguishing

media

: For this substance/mixture no limitations of

extinguishing agents are given.

Specific hazards during

fire fighting

: Pay attention to flashback.

Vapours are heavier than air and may spread along

floors.

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.

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.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Do not breathe vapours, aerosols.

Avoid substance contact. Ensure adequate ventilation.

Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency

procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.

Environmental precautions

: Do not let product enter drains.

Risk of explosion.

Methods and materials for containment and

cleaning up

: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7

and 10).

Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected

area.

# **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.

Take precautionary measures against static discharge.

Advice on safe handling

: Work under hood. Do not inhale substance/mixture.

Avoid generation of vapours/aerosols.

Further information on storage conditions

: Keep container tightly closed in a dry and well-

ventilated place.

Keep away from heat and sources of ignition.

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Keep locked up or in an area accessible only to

qualified or authorised persons.

Storage class : 3, Flammable liquids

Recommended storage

temperature

: Recommended storage temperature see product label.

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
1,4-dichlorobenzene	106-46-7	TWA	10 ppm	ACGIH
		TWA	75 ppm 450 mg/m3	OSHA Z-1

# **Biological occupational exposure limits**

Components	CAS-No.	Control	Biological	Samplin	Permissibl	Basis
		parameter	specimen	g time	е	
		S			concentrat	
					ion	
Methanol	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposur e	15 mg/l	ACGIH BEI
				ceases)		

**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

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standards relating to the used respiratory protection system.

Recommended Filter

type:

: Filter type ABEK

The entrepeneur 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

Material : butyl-rubber
Break through time : 480 min
Glove thickness : 0.3 mm
Protective index : Full contact

Manufacturer : Butoject® (KCL 897 / Aldrich Z677647, Size M)

Material : Nitrile rubber Break through time : 30 min Glove thickness : 0.4 mm

Protective index : Splash contact

Manufacturer : Camatril® (KCL 730 / Aldrich Z677442, Size M)

Manufacturer : data source: KCL GmbH, D-36124 Eichenzell, phone

+49 (0)6659 87300, e-mail sales@kcl.de, test

method: EN374

Remarks : Handle with gloves. Gloves must be inspected prior to

use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer

familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

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Hygiene measures : Immediately change contaminated clothing. Apply

preventive skin protection. Wash hands and face

after working with substance.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : colourless

Odor : No data available

Odor Threshold : No data available pH : No data available

Melting point/ range : -144 °F / -98 °C

Boiling point/boiling range :  $147 - 149 \, ^{\circ}\text{F} / 64 - 65 \, ^{\circ}\text{C} (1,013 \, \text{hPa})$ 

Flash point : 52 °F / 11 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Self-ignition : 725 °F / 385 °C

Upper explosion limit / Upper flammability limit

: Upper flammability limit

36 %(V)

Lower explosion limit / Lower flammability limit : Lower flammability limit

6 %(V)

Vapor pressure : 130.2 hPa (68 °F / 20 °C)

547 hPa (122 °F / 50 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 0.791 g/cm3

Solubility(ies)

Water solubility : completely miscible

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition 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

Molecular weight : 147.00 g/mol

Particle characteristics

Particle size : No data available

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Vapours 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.

Incompatible materials : Acids

> Oxidizing agents Alkali metals Acid chlorides Acid anhydrides Reducing agents

products

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

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

#### **Mixture**

## **Acute toxicity**

Oral: No data available

Acute toxicity estimate Oral - 100.6 mg/kg

(Calculation method)

Inhalation: No data available

Acute toxicity estimate Inhalation - 4 h - 3.12 mg/l - vapour(Calculation method)

Dermal: No data available

Acute toxicity estimate Dermal - 301.61 mg/kg

(Calculation method)

#### 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

Evidence of a carcinogenic effect.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (1,4-dichlorobenzene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (1,4-dichlorobenzene)

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

## Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available

## 11.2 Additional Information

Methyl alcohol may be fatal or cause blindness if swallowed., Cannot be made non-poisonous., Effects due to ingestion may include:, Nausea, Dizziness, Gastrointestinal disturbance, Weakness, Confusion., Drowsiness, Unconsciousness, May cause convulsions. Other dangerous properties can not be excluded.

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**AilliPDRE** 

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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 judgement)

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 - vapour

(Expert judgement)

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 judgement)

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

# 1,4-dichlorobenzene

## **Acute toxicity**

LD50 Oral - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 5.07 mg/l - vapour

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Remarks: Causes serious eye irritation.

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

## Respiratory or skin sensitization

Maximisation Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

## Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Species: Mouse - male and female - Bone marrow

Result: negative Remarks: (ECHA)

## Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

Millipore

# Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

# **Components:**

#### **Methanol:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill)): 15,400.0 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: US-EPA

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 18,260 mg/l

End point: Immobilization Exposure time: 96 h

Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green

algae)): ca. 22,000.0 mg/l Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC (Oryzias latipes (Orange-red killifish)): 7,900

mg/l

Exposure time: 200 h Remarks: (External MSDS)

Toxicity to : IC50 (activated sludge): > 1,000 mg/l

microorganisms Exposure time: 3 h
Test Type: static test
Analytical monitoring: yes

Method: OECD Test Guideline 209

1,4-dichlorobenzene:

Toxicity to fish : LC50 (Salmo gairdneri): 1.12 mg/l

End point: mortality

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Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Remarks: (ECHA)

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.7 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Remarks: (ECHA)

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (green

algae)): 1.6 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: US-EPA

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to fish (Chronic

toxicity)

: NOEC (Jordanella floridae): 0.2 - 0.23 mg/l

End point: mortality Exposure time: 14 d

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 210

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 0.22 mg/l

End point: reproduction rate

Exposure time: 28 d Test Type: semi-static test Analytical monitoring: yes

Remarks: (ECHA)

## **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## Persistence and degradability

## **Components:**

#### **Methanol:**

Biodegradability : Result: Readily biodegradable.

Biodegradation: 99 % Exposure time: 30 d

Method: OECD Test Guideline 301D

Biochemical Oxygen

Demand (BOD)

: 600 - 1,120 mg/g Incubation time: 5 d Remarks: (IUCLID)

Chemical Oxygen

Demand (COD)

: 1,420 mg/g

Remarks: (IUCLID)

ThOD : 1,500 mg/g

Remarks: (Lit.)

BOD/ThOD : 76 %

Remarks: Closed Bottle test

(IUCLID)

Stability in water : Hydrolysis: 83 - 91 % at 19 °C(72 h)

Remarks: Hydrolyses on contact with water.

Hydrolyses readily.

Degradation half life: 2.2 yr

Remarks: reaction with hydroxyl radicals

(IUCLID)

Photodegradation : Degradation (direct photolysis): 50 % Degradation

half life: 17.2 d

1,4-dichlorobenzene:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 8 mg/l

Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301C

**Bioaccumulative potential** 

**Components:** 

**Methanol:** 

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 1.0

Exposure time: 72 d Temperature: 68 °F / 20 °C Concentration: 5 mg/l

Partition coefficient: n-

octanol/water

: log Pow: -0.77 (77 °F / 25 °C)

Method: (experimental)

Remarks: (HSDB)

Bioaccumulation is not expected.

1,4-dichlorobenzene:

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Bioaccumulation : Species: Jordanella floridae

Bioconcentration factor (BCF): 296

Exposure time: 5 d

Temperature: 77 °F / 25 °C Concentration: 2.68 μg/l

Partition coefficient: n-

octanol/water

: log Pow: 3.37 (77 °F / 25 °C)

pH: 7

Method: US-EPA

Remarks: Bioaccumulation is not expected.

# Mobility in soil

## **Components:**

**Methanol:** 

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

## Other adverse effects

#### **Components:**

## **Methanol:**

Results of PBT and vPvB

assessment

: Not persistent, bioaccumulative, and toxic (PBT).

Additional ecological

information

: Avoid release to the environment.

#### **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.

## **SECTION 14. TRANSPORT INFORMATION**

# **International Regulations**

### **IATA-DGR**

UN/ID No. : UN 1230

Proper shipping name : Methanol solution

Class : 3 Subsidiary risk : 6.1 Packing group : II

Labels : Class 3 - Flammable liquids, Division 6.1 - Toxic

substances

Packing instruction (cargo: 364

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aircraft)

Packing instruction : 352

(passenger aircraft)

IMDG-Code

UN number : UN 1230

Proper shipping name : METHANOL SOLUTION

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 Regulations**

49 CFR Road

UN/ID/NA number : UN 1230

Proper shipping name : Methanol SOLUTION

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.

## **SECTION 15. REGULATORY INFORMATION**

# **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1,4-dichlorobenzene	106-46-7	100	100 (D027)
Methanol	67-56-1	5000	

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components CAS-No. Component TPQ (lbs)	S)
--	----

SARA 311/312 : Fire Hazard

**Hazards** Chronic Health Hazard

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**SARA 313** : The following components are subject to reporting

levels established by SARA Title III, Section 313:

1,4- 106-46-7 0.5 %

dichlorobenzen

e

Methanol 67-56-1 99.5 %

# **US State Regulations**

# **Massachusetts Right To Know**

Methanol 67-56-1 1,4-dichlorobenzene 106-46-7

# Pennsylvania Right To Know

Methanol 67-56-1 1,4-dichlorobenzene 106-46-7

## **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

## California Prop. 65

WARNING: This product can expose you to chemicals including 1,4-dichlorobenzene, which is/are known to the State of California to cause cancer, and Methanol, 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.

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

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

1,4-dichlorobenzene 106-46-7

#### **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

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OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-

1 Limits for Air Contaminants: 8-hour, time-weighted average

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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardisation; 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 - Organisation 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 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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