

# **SAFETY DATA SHEET**

Version 6.18 Revision Date 05/06/2025 Print Date 05/07/2025

### **SECTION 1. IDENTIFICATION**

#### 1.1 Product identifiers

Product name : 1,2-Dichloroethane

Product Number : 319929
Brand : SIGALD
Index-No. : 602-012-00-7
CAS-No. : 107-06-2

### 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

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 4

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Acute toxicity (Inhalation)

: Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity : Category 1B

Specific target organ toxicity - single exposure

: Category 3 (Respiratory system)

Aspiration hazard : Category 1

### Other hazards

None known.

### **GHS label elements**

Hazard pictograms









Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H350 May cause cancer.

# 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.

P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this

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product.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

#### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

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 : Substance

#### Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
1,2-Dichloroethane	107-06-2*	>= 90 - <= 100	1

<sup>\*</sup> 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.

Consult a physician.

In case of eye contact : After eye contact: rinse out with plenty of water.

Call in ophthalmologist. Remove contact lenses.

If swallowed : After swallowing: caution if victim vomits. Risk of

aspiration! Keep airways free.

Pulmonary failure possible after aspiration of vomit.

Call a physician immediately.

Most important symptoms and effects,

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. FIRE-FIGHTING MEASURES**

Suitable extinguishing

media

: Water Foam

Carbon dioxide (CO2)

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.

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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

: Carbon oxides

products

Hydrogen chloride gas

Specific extinguishing

Further information

: No data available

methods

: Remove container from danger zone and cool with

water.

Suppress (knock down) gases/vapors/mists with a

water spray jet.

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 vapors, 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

: Cover drains. Collect, bind, and pump off spills.

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for containment and cleaning up

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. Keep locked up or in an area accessible only to

qualified or authorized persons.

Storage class : 3, Flammable liquids

Recommended storage

temperature

: Recommended storage temperature see product label.

Packaging material : Suitable material: Any Metal Drum

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

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2-Dichloroethane	107-06-2	TWA	10 ppm	ACGIH
		ST	2 ppm 8 mg/m3	NIOSH REL
		TWA	1 ppm 4 mg/m3	NIOSH REL
		TWA	50 ppm	OSHA Z-2
		CEIL	100 ppm	OSHA Z-2
		Peak	200 ppm (5 mins. in any 3 hrs.)	OSHA Z-2

**Engineering measures** : No data available

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# **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

EN 143, DIN 14367 and other accompanying

standards relating to the used respiratory protection

system.

Recommended Filter

type:

: Filter A (acc. to DIN 3181) for vapours of organic

compounds

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 : Viton®
Break through time : 480 min
Glove thickness : 0.7 mm
Protective index : Full contact

Manufacturer : Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Material : Chloroprene
Break through time : 10 min
Glove thickness : 0.65 mm
Protective index : Splash contact

Manufacturer : KCL 720 Camapren®

Remarks : This recommendation applies only to the product

stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-

36124 Eichenzell, Internet: www.kcl.de).

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 : viscous liquid

Color : colorless

Odor : of solvents

Odor Threshold : 3 ppm

pH : No data available

Melting point/ range : -31 °F / -35 °C

Method: lit.

Boiling point/boiling range : 181 °F / 83 °C

Method: lit.

Flash point : ca. 55 °F / 13 °C

(1,013 hPa)

Method: DIN 51755 Part 1, closed cup

Evaporation rate : 4.1

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Self-ignition : 824 °F / 440 °C

1,013 hPa

Method: DIN 51794

Upper explosion limit /

Upper flammability limit

: Upper explosion limit

15.9 %(V)

Lower explosion limit /

Lower flammability limit

: Lower explosion limit

6 %(V)

Vapor pressure : 102 hPa (77 °F / 25 °C)

87 hPa (68 °F / 20 °C)

Relative vapor density : 4.1 (68 °F / 20 °C)

Relative density : No data available

Density : 1.256 g/mL (77 °F / 25 °C)

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Method: lit.

Solubility(ies)

Water solubility : 7.9 g/l soluble (77 °F / 25 °C)

pH: 7.4

Method: OECD Test Guideline 105

Partition coefficient: n-

octanol/water

: log Pow: 1.45 (68 °F / 20 °C)

pH: 7.4

Method: OECD Test Guideline 107 Bioaccumulation is not expected.

Autoignition temperature : 824 °F / 440 °C (1,013 hPa)

Method: DIN 51794

Decomposition

temperature

: 572 °F / 300 °C

Viscosity

Viscosity, dynamic : 0.83 mPa.s (68 °F / 20 °C)

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

Surface tension : 32.45 mN/m,  $68 \degree \text{F} / 20 \degree \text{C}$ 

Molecular weight : 98.96 g/mol

Particle characteristics

Particle size : No data available

### **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

: Exothermic reaction with:

Alkaline earth metals

alkali amides Nitric acid nitrogen oxides Oxidizing agents

Chlorine

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powdered magnesium

Zinc

Risk of explosion with:

Alkali metals

powdered aluminium Powdered metals

Potassium nitrogen dioxide

Conditions to avoid : Warming.

Incompatible materials : No data available

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

products

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

### 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - Rat - male - 770 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 7.8 mg/l - vapor

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male - 4,890 mg/kg

(OECD Test Guideline 402)

# Skin corrosion/irritation

Skin - Rabbit Result: irritating

(OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation

(OECD Test Guideline 405)

### Respiratory or skin sensitization

Local lymph node assay (LLNA) - Mouse

Result: negative

(OECD Test Guideline 429)

# Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Result: positive Remarks: (ECHA) Test Type: Ames test

Test system: Escherichia coli

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 471

Result: positive

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Millipore SiGMa Test Type: In vitro mammalian cell gene mutation test

Test system: human lymphoblastoid cells

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Test Type: In vitro mammalian cell gene mutation test

Test system: human lymphoblastoid cells

Metabolic activation: without metabolic activation

Result: positive Remarks: (ECHA)

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Result: positive Remarks: (ECHA)

Test Type: unscheduled DNA synthesis assay

Test system: rat hepatocytes

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 482

Result: positive

Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: negative

Test Type: Mutagenicity (mammal cell test): micronucleus.

Species: Mouse

Cell type: Red blood cells (erythrocytes)

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Test Type: sister chromatid exchange assay

Species: Rat

Cell type: mammary gland

Application Route: inhalation (vapor)

Result: negative Remarks: (ECHA)

Species: Drosophila melanogaster

Cell type: sperm

Application Route: Inhalation Method: OECD Test Guideline 477

Result: positive

Test Type: Transgenic rodent somatic cell gene mutation assay

Species: Mouse

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Millipore SigMa Application Route: Intraperitoneal

Result: negative Remarks: (ECHA)

# Carcinogenicity

Presumed to have carcinogenic potential for humans

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

NTP: RAHC - Reasonably anticipated to be a human carcinogen (1,2-Dichloroethane)

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

May cause respiratory irritation.

# Specific target organ toxicity - repeated exposure

No data available

### **Aspiration hazard**

Aspiration may cause pulmonary edema and pneumonitis.

#### 11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 37.5 mg/kg
Remarks: Subchronic toxicity

Repeated dose toxicity - Mouse - male and female - Inhalation - 104 Weeks

RTECS: KI0525000

Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material.

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

Pancreas. -

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### **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

### Components:

### 1,2-Dichloroethane:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 136

mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: OECD Test Guideline 203

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 160 mg/l

End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Remarks: (in soft water)

(IUCLID)

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 166

Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 11 mg/l

End point: reproduction rate

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

Remarks: (ECHA)

Toxicity to : EC50 (activated sludge): 35,500 mg/l

microorganisms Exposure time: 3 h

Test Type: static test

Method: OECD Test Guideline 209

# Persistence and degradability

### Components:

### 1,2-Dichloroethane:

Biodegradability : aerobic

Concentration: 0.25 mg/l

Result: Inherently biodegradable.

Biodegradation: > 90 % Exposure time: 20 d Remarks: (ECHA)

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### **Bioaccumulative potential**

### **Components:**

### 1,2-Dichloroethane:

Bioaccumulation : Species: Lepomis macrochirus

Bioconcentration factor (BCF): 2

Exposure time: 14 d

Temperature: 61 °F / 16 °C Concentration: 0.957 mg/l

Partition coefficient: n-

octanol/water

: log Pow: 1.45 (68 °F / 20 °C)

pH: 7.4

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

# Mobility in soil

# **Components:**

# 1,2-Dichloroethane:

Distribution among environmental compartments

: Adsorption/Soil

Koc: 38, log Koc: 1.58 Method: (experimental) Remarks: Mobile in soils

Remarks: (Lit.)

### 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).

# **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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Aillipore

#### **SECTION 14. TRANSPORT INFORMATION**

# **International Regulations**

**IATA-DGR** 

UN/ID No. : UN 1184

Proper shipping name : Ethylene dichloride

Class Subsidiary risk : 6.1 : II Packing group

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

substances

Packing instruction (cargo: 364

aircraft)

Packing instruction : 352

(passenger aircraft)

IMDG-Code

**UN** number : UN 1184

Proper shipping name : ETHYLENE DICHLORIDE

Class : 3 Subsidiary risk : 6.1 Packing group : II Labels 3 (6.1) EmS Code : F-E, S-D

Marine pollutant

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **National regulation**

49 CFR Road

: UN 1184 UN/ID/NA number

: Ethylene dichloride Proper shipping name

Class : 3 Subsidiary risk : 6.1 Packing group II

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

substances

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)
1,2-Dichloroethane	107-06-2	100	100
1,2-Dichloroethane	107-06-2	100	100 (D028)

# **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

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

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard

Chronic Health Hazard

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

levels established by SARA Title III, Section 313:

1,2- 107-06-2 >= 90 - <= 100 %

Dichloroethane

#### 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):

1,2-Dichloroethane 107-06-2 >= 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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

1,2-Dichloroethane 107-06-2 >= 90 - <= 100 %

# **Clean Water Act**

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

1,2-Dichloroethane 107-06-2 >= 90 - <= 100 %

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

1,2-Dichloroethane 107-06-2 >= 90 - <= 100 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

1,2-Dichloroethane 107-06-2 >= 90 - <= 100 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

1,2-Dichloroethane 107-06-2 >= 90 - <= 100 %

### **US State Regulations**

# **Massachusetts Right To Know**

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1,2-Dichloroethane 107-06-2

## Pennsylvania Right To Know

1,2-Dichloroethane 107-06-2

### **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 1,2-Dichloroethane, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

# **International Regulations**

Rotterdam Convention (Prior Informed Consent): 1,2-Dichloroethane

### The ingredients 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:

1,2-Dichloroethane 107-06-2

#### **SECTION 16. OTHER INFORMATION**

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-

2

ACGIH / TWA : 8-hour, time-weighted average

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-2 / TWA : 8-hour time weighted average OSHA Z-2 / CEIL : Acceptable ceiling concentration

OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable

ceiling concentration for an 8-hr shift

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response,

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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-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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