

# **SAFETY DATA SHEET**

Version 6.13 Revision Date 04/28/2025 Print Date 04/29/2025

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

#### 1.1 Product identifiers

Product name : Methylamine solution 33 wt. % in absolute

ethanol

Product Number : 534102 Brand : Aldrich

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

Skin corrosion : Category 1B

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Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

#### Other hazards

None known.

#### **GHS label elements**

Hazard pictograms







Signal Word Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

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

P261 Avoid breathing mist or vapors.

P264 Wash skin thoroughly after handling.

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

protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to

fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

Aldrich - 534102 Page 2 of 18 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
ethanol	64-17-5*	>= 50 - < 70	-
methylamine in solution	74-89-5*	>= 30 - < 50	-

 $<sup>\</sup>ensuremath{^{*}}$  Indicates that the identifier is a CAS No.

Actual concentration is withheld as a trade secret

#### **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. Call in physician.

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.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : After swallowing: make victim drink water (two

glasses at most), avoid vomiting (risk of perforation).

Call a physician immediately. Do not attempt to neutralise.

Most important symptoms and effects,

: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

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both acute and delayed 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

: 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

: Mixture with combustible ingredients.

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

Nitrogen oxides (NOx)

Specific extinguishing

methods

: No data available

Further information : 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.

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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 for containment and cleaning up

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

and 10).

Take up 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.

Further information on storage conditions

: Keep container tightly closed in a dry and well-

ventilated place.

Keep away from heat and sources of ignition.

Storage class : 3, Flammable liquids

Recommended storage

temperature

: 36 - 46 °F / 2 - 8 °C

Further information on storage stability

: Handle and store under inert gas.

Hygroscopic.



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

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
methylamine in solution	74-89-5	TWA	5 ppm	ACGIH
		STEL	15 ppm	ACGIH
		TWA	10 ppm 12 mg/m3	NIOSH REL
		TWA	10 ppm 12 mg/m3	OSHA Z-1

**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

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

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Glove thickness : 0.2 mm

Protective index : Splash contact

Manufacturer : Dermatril® P (KCL 743 / Aldrich Z677388, 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 EC 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).

Tightly fitting safety goggles

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.

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

Appearance : clear, liquid

Color : colorless

Odor : unpleasant

Odor Threshold : No data available pH : No data available

Melting point : No data available

Boiling point/boiling range : No data available

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Flash point : -9.0 °F / -22.8 °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

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 0.756 g/cm3

Water solubility : No data available

Partition coefficient: n-

octanol/water

: No data available

: No data available Autoignition temperature

Decomposition

temperature

: No data available

: No data available Viscosity, dynamic

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

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

: No data available

Conditions to avoid : Warming.

Incompatible materials : Oxidizing agents

> Alkali metals Ammonia Acid chlorides Acid anhydrides Peroxides acids

Chloroformates Phosphorus halides

products

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

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

## 11.1 Information on toxicological effects

#### **Mixture**

#### **Acute toxicity**

Oral: No data available

Acute toxicity estimate Oral - 2,115 mg/kg

(Calculation method)

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of

perforation of the esophagus and the stomach.

Inhalation: No data available

Acute toxicity estimate Inhalation - 4 h - 33.64 mg/l - vapor(Calculation method)

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

Dermal: No data available Skin corrosion/irritation Remarks: Mixture causes burns.

#### Serious eye damage/eye irritation

Remarks: Mixture causes serious eye damage.

Risk of blindness!

## Respiratory or skin sensitization

No data available

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*IilliPDRE* 

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## 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 may cause respiratory irritation.

#### Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available

#### 11.2 Additional Information

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

# **Components**

#### ethanol

## **Acute toxicity**

LD50 Oral - Rat - male and female - 10,470 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 124.7 mg/l - vapor

(OECD Test Guideline 403) Dermal: No data available

## Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye irritation.

(OECD Test Guideline 405)

## Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances: Methanol

# Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Method: OECD Test Guideline 478

Species: Mouse - male

Result: Positive results were obtained in some in vivo tests.

#### Carcinogenicity

No data available

## Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

## **Aspiration hazard**

No data available

## methylamine in solution

#### **Acute toxicity**

LD50 Oral - Rat - male and female - 698 mg/kg

(OECD Test Guideline 401)

Inhalation: Corrosive to respiratory system.

Acute toxicity estimate Inhalation - 4 h - 11.1 mg/l - vapor

(Expert judgment)

Dermal: No data available

Skin corrosion/irritation

Remarks: Causes severe burns.

## Serious eye damage/eye irritation

Remarks: No data available

## Respiratory or skin sensitization

No data available

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## Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male

Result: negative

Carcinogenicity

No data available

## Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Respiratory system, Stomach

# Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available

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

## **Ecotoxicity**

## **Components:**

#### ethanol:

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

15,300 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

: LC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Remarks: (ECHA)

Toxicity to algae/aquatic

plants

: ErC50 (Chlorella vulgaris (Fresh water algae)): 275

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

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Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): 250 mg/l

Exposure time: 120 h Test Type: semi-static test

Remarks: (ECHA)

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 9.6 mg/l

End point: reproduction rate

Exposure time: 9 d

Test Type: semi-static test

Remarks: (ECHA)

Toxicity to microorganisms

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

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

Method: OECD Test Guideline 209

The value is given in analogy to the following

substances: Methanol

methylamine in solution:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 163 mg/l

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

Remarks: (ECHA)

Toxicity to algae/aquatic

plants

: ErC50 (Desmodesmus subspicatus (green algae)): >

281.8 mg/l

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

Method: OECD Test Guideline 201

GLP: yes

Toxicity to : EC20 (activated sludge): 240 mg/l

microorganisms Exposure time: 30 min Method: ISO 8192

Persistence and degradability

**Components:** 

ethanol:

Biodegradability : aerobic

Inoculum: activated sludge, non-adapted

Result: Readily biodegradable. Biodegradation: ca. 95 % Exposure time: 15 d

Method: OECD Test Guideline 301E

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Biochemical Oxygen

Demand (BOD)

: 930 - 1,670 mg/g Incubation time: 5 d Remarks: (Lit.)

ThOD : 2,100 mg/g

Remarks: (Lit.)

methylamine in solution:

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 14 d

Method: OECD Test Guideline 301C

## **Bioaccumulative potential**

## **Components:**

ethanol:

Bioaccumulation : Remarks: Due to the distribution coefficient n-

octanol/water, accumulation in organisms is not

expected.

Partition coefficient: n-

octanol/water

: log Pow: -0.35 (75 °F / 24 °C)

pH: 7.4

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

methylamine in solution:

Partition coefficient: n-

octanol/water

log Pow: -0.713 (77 °F / 25 °C)

pH: 11.1 - 11.4

Method: OECD Test Guideline 107

Remarks: Bioaccumulation is not expected.

**Mobility in soil**No data available

Other adverse effects

# **Components:**

ethanol:

Results of PBT and vPvB

assessment

: Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex

XIII.

#### **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 2924

Proper shipping name : Flammable liquid, corrosive, n.o.s.

(ethanol, methylamine in solution)

Class : 3 Subsidiary risk : 8 Packing group : II

Labels : Class 3 - Flammable liquids, Class 8 - Corrosive

substances

Packing instruction (cargo: 363

aircraft)

Packing instruction : 352

(passenger aircraft)

IMDG-Code

UN number : UN 2924

Proper shipping name : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

(ethanol, methylamine in solution)

Class : 3
Subsidiary risk : 8
Packing group : II
Labels : 3 (8)
EmS Code : F-E, S-C
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 2924

Proper shipping name : Flammable liquids, corrosive, n.o.s.

(ethanol, methylamine in solution)

Class : 3 Subsidiary risk : 8 Packing group : II

Labels : Class 3 - Flammable liquids, Class 8 - Corrosive

substances

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ERG Code : 132 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	Calculated product
		RQ (lbs)	RQ (lbs)
methylamine in solution	74-89-5	100	303

## 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 : This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by

SARA Title III, Section 313.

## **US State Regulations**

## **Massachusetts Right To Know**

ethanol 64-17-5 methylamine in solution 74-89-5

Pennsylvania Right To Know

ethanol 64-17-5 methylamine in solution 74-89-5

# **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

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## California Prop. 65

WARNING: This product can expose you to chemicals including ethanol, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### 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.

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

#### **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-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

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;

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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 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 : 04/28/2025

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