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SAFETY DATA SHEET

Version 6.15 Revision Date 12/06/2024 Print Date 12/07/2024

SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : 2-Methoxyethanol

Product Number	:	284467
Brand	:	Sigma-Aldrich
Index-No.	:	603-011-00-4
CAS-No.	:	109-86-4

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 Fax	: +1 314 771-5765 : +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 3		

Flammable liquids : Category 3

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Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Acute toxicity (Dermal)	:	Category 4
Reproductive toxicity	:	Category 1B
Specific target organ tox- icity - single exposure	:	Category 1 (Immune system)
Specific target organ tox- icity - repeated exposure	:	Category 2 (thymus)
GHS label elements Hazard pictograms :		
Signal Word	:	Danger
Hazard Statements	:	 H226 Flammable liquid and vapor. H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled. H360 May damage fertility or the unborn child. H370 Causes damage to organs (Immune system). H373 May cause damage to organs (thymus) through prolonged or repeated exposure.
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 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/ protective clothing/ eye protection/ face protection.

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The life science business of Merck operates as MilliporeSigma in the US and Canada



Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P307 + P311 IF exposed: Call a POISON CENTER or

doctor/ physician.

P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS-No.	Concentration (% w/w)			
2-Methoxyethanol	109-86-4	>= 90 - <= 100			
Actual concentration is withheld as a trade contrat					

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice If inhaled		Show this material safety data sheet to the doctor in attendance. After inhalation: fresh air. Immediately call in physician.
		If breathing stops: immediately apply artificial respira- tion, if necessary also oxygen.
In case of skin contact	:	In case of skin contact: Take off immediately all con- taminated 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: immediately make victim drink wa- ter (two glasses at most). Consult a physician.
Most important symp- toms 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	:	Carbon dioxide (CO2) Foam Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extin- guishing agents are given.
Specific hazards during fire fighting	:	Combustible.
		Vapors are heavier than air and may spread along floors.
		Forms explosive mixtures with air at elevated temper- atures.
		Development of hazardous combustion gases or va- pours possible in the event of fire.
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 equip-	:	Stay in danger area only with self-contained breathing
ment for fire-fighters		apparatus. Prevent skin contact by keeping a safe
		distance or by wearing suitable protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

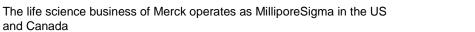
Personal precautions, protective equipment and emergency procedures	:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency proce- dures, consult an expert. Advice for emergency responders: For personal protection see section 8.
Environmental precau- tions	:	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. Keep locked up or in an area accessible only to quali- fied or authorized persons.
Storage class	:	3, Flammable liquids
Recommended storage temperature	:	Recommended storage temperature see product label.

and Canada





SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control param- eters / Permis- sible concentra- tion	Basis
2-Methoxyethanol	109-86-4	TWA	0.1 ppm	ACGIH
		TWA	25 ppm 80 mg/m3	OSHA Z-1
		TWA	25 ppm 80 mg/m3	OSHA P0
		TWA	0.1 ppm 0.3 mg/m3	NIOSH REL

Biological occupational exposure limits

Components	CAS-No.	Control parame-	Biological specimen	Sam- pling	Permissi- ble con-	Basis
		ters		time	centration	
2-Methoxyethanol	109-86-4	2- Methoxya- cetic acid	Urine	End of shift at end of work- week	1 mg/g creatinine	ACGIH BEI

Engineering measures : No data available

Personal protective equipment

Respiratory protection	:	required when vapours/aerosols are generated. Our recommendations on filtering respiratory protec- tion are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Recommended Filter	:	Filter A-(P2)

type:

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	:	0.7 mm

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Protective index Manufacturer	•	Full contact Butoject® (KCL 898)
Material Break through time Glove thickness Protective index Manufacturer	:	Viton® 120 min 0.7 mm Splash contact Vitoject® (KCL 890 / Aldrich Z677698, Size M)
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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	clear, liquid
Color	:	colorless
Odor	:	ether-like
Odor Threshold	:	2.3 ppm
рН	:	5.0 - 7.0 (77 °F / 25 °C)
Melting point/ range	:	-121 °F / -85 °C Method: lit.
Boiling point/boiling range	:	255 - 257 °F / 124 - 125 °C Method: lit.
Flash point	:	104 °F / 40 °C

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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		Upper explosion limit 24.5 %(V)
Lower explosion limit / Lower flammability limit		Lower explosion limit 2.5 %(V)
Vapor pressure	:	10 hPa (68 °F / 20 °C)
Relative vapor density	:	2.63 (Air = 1.0)
Relative density	:	No data available
Density	:	0.965 g/cm3 (77 °F / 25 °C) Method: lit.
Solubility(ies) Water solubility	:	soluble (68 °F / 20 °C)
Partition coefficient: n- octanol/water	:	log Pow: -0.77 (82 °F / 28 °C) pH: 7 Method: (experimental) Bioaccumulation is not expected. (Lit.)
Autoignition temperature	:	617 °F / 325 °C Method: DIN 51794
Decomposition tempera- ture	:	399 - 450 °F / 204 - 232 °C
Viscosity Viscosity, dynamic	:	1.7 mPa.s (68 °F / 20 °C)
Viscosity, kinematic	:	1.6 mm2/s (68 °F / 20 °C)
Flow time	:	No data available
Explosive properties	:	Not classified as explosive.
Oxidizing properties	:	none
Surface tension	:	ca. 72 mN/m, 77 °F / 25 °C

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SECTION 10. STABILITY AN	DI	REACTIVITY
Reactivity	:	Vapors may form explosive mixture with air.
		Vapor/air-mixtures are explosive at intense warming.
Chemical stability	:	The product is chemically stable under standard ambi- ent conditions (room temperature) .
Possibility of hazardous reactions	:	Generates dangerous gases or fumes in contact with: Aluminum magnesium bases Zinc Risk of explosion with: Oxidizing agents Air Possible formation of: Peroxides
Conditions to avoid	:	Heat. 45°C
		Heating.
Incompatible materials	:	Aluminum various plastics
Hazardous decomposition products	:	In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rabbit - 890 mg/kg Remarks: Behavioral:General anesthetic. Blood:Other hemolysis with or withot anemia. (RTECS) Symptoms: Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis. Acute toxicity estimate Inhalation - Expert judgment - 4 h - 11 mg/l - vapor

LD50 Dermal - Rabbit - 1,280 mg/kg Remarks: (RTECS) No data available

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Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (Directive 67/548/EEC, Annex V, B.4.)

Serious eye damage/eye irritation

Eyes - Rabbit Result: slight irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative

Test Type: Chromosome aberration test Species: Mouse

Application Route: Oral Method: OECD Test Guideline 475 Result: negative

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

May damage the unborn child. May damage fertility.

Specific target organ toxicity - single exposure

Causes damage to organs. - Immune system

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - thymus

Aspiration hazard

No data available

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11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - < 71 mg/kg - LOAEL (Lowest observed adverse effect level) - 71 mg/kg Remarks: (ECHA)

RTECS: KL5775000

Effects due to ingestion may include:, Changes in the blood count, Headache, Central nervous system depression, Ingestion of large amounts may cause:, Damage of the:, Liver, Kidney, Central nervous system

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

Systemic effects:

Changes in the blood count Headache Inhalation of high vapor concentrations can cause CNS-depression and narcosis.

After absorption of large quantities:

Damage to:

Liver Kidney Central nervous system

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-Methoxyethanol:

Toxicity to fish

: LC50 (Lepomis macrochirus (Bluegill sunfish)): >
10,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic inverte- brates	:	EC50 (Daphnia magna (Water flea)): 27,000 mg/l End point: Immobilization Exposure time: 48 h Test Type: semi-static test Analytical monitoring: yes Method: ISO 6341
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 25,500 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: ISO 8692
Toxicity to daphnia and other aquatic inverte- brates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): > 500 mg/l End point: reproduction rate Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211
Toxicity to microorgan- isms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209 GLP: yes

Persistence and degradability

Components:

2-Methoxyethanol:

:	aerobic
	Inoculum: activated sludge
	Concentration: 10 mg/l
	Result: Readily biodegradable.
	Biodegradation: 88 %
	Exposure time: 20 d
	Remarks: (ECHA)
	:

Bioaccumulative potential

Components:

2-Methoxyethanol:

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow ≤ 4).
Partition coefficient: n- octanol/water	:	log Pow: -0.77 (82 °F / 28 °C) pH: 7 Method: (experimental) Remarks: Bioaccumulation is not expected.

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(Lit.)

Mobility in soil

No data available

Other adverse effects

Product:

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 chemi- cals 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. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft)	::	
Packing instruction (pas- senger aircraft)	:	355
IMDG-Code UN number Proper shipping name		UN 1188 ETHYLENE GLYCOL MONOMETHYL ETHER
Class Packing group Labels EmS Code Marine pollutant	:	3 III 3 F-E, S-D yes

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Road UN/ID/NA number Proper shipping name	:	UN 1188 Ethylene glycol monomethyl ether
Class Packing group Labels ERG Code Marine pollutant	:	3 III Class 3 - Flammable liquids 127 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

This material does not contain any components with a CERCLA RQ.

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 Haz- ards	:	Fire Hazard Acute Health Ha Chronic Health H		
SARA 313	:			ubject to reporting III, Section 313:
		2- Methoxy- ethanol	109-86-4	>= 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). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).



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):

2-Methoxyethanol 109-86-4

>= 90 - <= 100 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

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	
2-Methoxyethanol	109-86-4
Pennsylvania Right To Know	
2-Methoxyethanol	109-86-4
Maine Chemicals of High Concern	
Product does not contain any listed chemicals	
Vermont Chemicals of High Concern	
2-Methoxyethanol	109-86-4
Washington Chemicals of High Concern	
2-Methoxyethanol	109-86-4

California Prop. 65

WARNING: This product can expose you to chemicals including 2-Methoxyethanol, 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 ingredients of this product are reported in the following inventories:

TSCA

: All substances listed as active on the TSCA inventory

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:2-Methoxyethanol109-86-4See 40 CFR § 721.10001; Final
Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: 2-Methoxyethanol 109-86-4

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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 PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989
		vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-
		1 Limits for Air Contaminants
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
OSHA P0 / TWA	:	8-hour time weighted average
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 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

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2020 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

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