

SAFETY DATA SHEET

Version 6.25 Revision Date 05/20/2025 Print Date 05/21/2025

SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : Hydrazine monohydrate

Product Number : 207942 Brand : Sigma-Aldrich Index-No. : 007-008-00-3 CAS-No. : 7803-57-8

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 3

Acute toxicity (Oral) : Category 3

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Acute toxicity (Inhalation)

: Category 2

Acute toxicity (Dermal) : Category 3

Skin corrosion : Sub-category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

Carcinogenicity : Category 1B

Short-term (acute) aguatic hazard

: Category 1

Long-term (chronic) aquatic hazard

: Category 1

Other hazards

None known.

GHS label elements

Hazard pictograms













Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.

H301 + H311 Toxic if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

11317 May cause an allergic skill re

H330 Fatal if inhaled. H350 May cause cancer.

H410 Very toxic 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, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving

equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting

equipment.

P242 Use non-sparking tools.

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P243 Take action to prevent static discharges.

P260 Do not breathe mist or vapours.

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.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P284 Wear respiratory protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

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

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Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
hydrazine monohydrate	7803-57-8*	>= 80 - <= 100	TSC

^{*} Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : First aiders need to protect themselves.

Show this safety data sheet to the doctor in

attendance.

If inhaled : After inhalation: fresh air. Immediately call in

physician.

If breathing stops: immediately apply artificial

respiration, if necessary also oxygen.

In case of skin contact : In case of skin contact: Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

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

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed : If swallowed: give water to drink (two glasses at

most). Seek medical advice immediately. In

exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who

are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and

consult a doctor as quickly as possible.

Do not attempt to neutralise.

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

Suitable extinguishing

media

: Small (incipient) fires must be extinguished with alcohol resistant foam, dry chemical powder or carbon dioxide. Large amounts of water are ineffective. Cool

containers with large amounts of water.

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Specific hazards during fire fighting

: Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

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

Hazardous combustion products

: Nature of decomposition products not known.

Specific extinguishing methods

: No data available

Further information

: Remove container from danger zone and cool with

water.

Suppress (knock down) gases/vapours/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 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.

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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

qualified or authorised persons.

Storage class : 3, Flammable liquids

Recommended storage

temperature

: Recommended storage temperature see product label.

Packaging material : Suitable material: Poly Drum, Amber Glass Bottle/Jar

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
hydrazine monohydrate	7803-57-8	TWA	0.01 ppm	ACGIH
		С	0.03 ppm 0.04 mg/m3	NIOSH REL
		TWA	1 ppm 1.3 mg/m3	OSHA Z-1

Engineering measures : No data available

Personal protective equipment

Respiratory protection : required when vapours/aerosols are generated.

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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 K

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 : Latex gloves
Break through time : 480 min
Glove thickness : 0.6 mm
Protective index : Full contact

Manufacturer : Lapren® (KCL 706 / Aldrich Z677558, Size M)

Material : Nitrile rubber Break through time : 30 min Glove thickness : 0.11 mm

Protective index : Splash contact

Manufacturer : KCL 741 Dermatril® L

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).

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

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Appearance : liquid, clear

Color : colourless

Odor : No data available

: No data available Odor Threshold

рΗ : 10.6 - 10.7

Concentration: 10 g/l

: -61.1 °F / -51.7 °C Melting point/ range

Method: lit.

Boiling point/boiling range : 248.2 °F / 120.1 °C

Method: lit.

Flash point : 100 °F / 38 °C

(1,013 hPa)

Method: closed cup (anhydrous substance)

Evaporation rate : No data available

: No data available Flammability (solid, gas)

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

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

Relative vapour density : No data available

Relative density : No data available

Density : 1.032 g/cm3 (77 °F / 25 °C)

Method: lit.

Solubility(ies)

: completely soluble Water solubility

Solubility in other : soluble

Solvent: Ethanol solvents

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature

 $: > 482 \, ^{\circ}F / > 250 \, ^{\circ}C$

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

Molecular weight : 50.06 g/mol

Particle characteristics

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Vapour/air-mixtures are explosive at intense warming.

Chemical stability : The product is chemically stable under standard

ambient conditions (room temperature) .

Possibility of hazardous

reactions

: Exothermic reaction with:

Oxidizing agents Heavy metals Light metals metallic oxides halogens

naloge Metals acids

Organic Substances Nitro compounds strong alkalis

Risk of explosion with:

Alkali metals sodium

mercury compounds tin (II) chloride

Violent reactions possible with:

Heavy metals alkalines

Light metals metallic chlorides metallic oxides halogens Metals Acids

Oxidizing agents

organic nitro compounds

Heavy metal salts

Conditions to avoid : Heat, flames and sparks.

Heating.

Incompatible materials : Oxidizing agents

> Oxygen Copper

Organic materials

Zinc

products

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

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 262 mg/kg

(OECD Test Guideline 401) Remarks: anhydrous substance

LC50 Inhalation - Rat - male - 4 h - 0.76 mg/l - vapour

Remarks: (ECHA) anhydrous substance Dermal: No data available

No data available

Skin corrosion/irritation

Skin - Rabbit

Result: Corrosive - 4 h Remarks: (55% solution) anhydrous substance

Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Respiratory or skin sensitization

(Regulation (EC) No 1272/2008, Annex VI) (anhydrous substance)

Germ cell mutagenicity

No data available

Carcinogenicity

Presumed to have carcinogenic potential for humans



IARC: 2A - Group 2A: Probably carcinogenic to humansThe data in this record has been

derived from the water-free form of this substance. (hydrazine monohydrate)

NTP: RAHC - Reasonably anticipated to be a human carcinogenThe data in this record

has been derived from the water-free form of this substance. (hydrazine

monohydrate)

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

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

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

CNS stimulation., Cyanosis, Salivation, Seizures., Diarrhoea, Fever, Confusion.,

Hypoglycemia, Anorexia., Convulsions, Coma.

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

Liver - Irregularities - Based on Human Evidence

Liver - Irregularities - Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

hydrazine monohydrate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 0.61 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Remarks: (ECHA)

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia pulex (Water flea)): 0.16 mg/l

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

Method: US-EPA

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AilliPDRE

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Remarks: (in analogy to similar products)

Toxicity to algae/aquatic

plants

: ErC50 (Desmodesmus subspicatus (green algae)):

0.017 mg/l

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

Method: Regulation (EC) No. 440/2008, Annex, C.3

GLP: yes

M-Factor (Acute aquatic

toxicity)

: 10

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 0.123 mg/l

End point: mortality Exposure time: 21 d Test Type: semi-static test

Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: yes

M-Factor (Chronic aquatic: 10

toxicity)

Toxicity to

: EC50 (activated sludge): 5.5 mg/l

microorganisms Exposure time: 3 h

Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Persistence and degradability

Components:

hydrazine monohydrate:

Biodegradability : aerobic

Inoculum: activated sludge Result: Inherently biodegradable.

Biodegradation: 99 % Exposure time: 24 h

Method: OECD Test Guideline 302B

GLP: yes

Remarks: (anhydrous substance)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

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Millipore SigMa Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part

82 Protection of Stratospheric Ozone - CAA Section

602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

Components:

hydrazine monohydrate:

Additional ecological

information

: No data available

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 2030

Proper shipping name : Hydrazine, aqueous solution

Class : 8 Subsidiary risk : 6.1 Packing group : II

Labels : Class 8 - Corrosive substances, Division 6.1 - Toxic

substances

Packing instruction (cargo: 855

aircraft)

Packing instruction

(passenger aircraft)

: Not permitted for transport

IMDG-Code

UN number : UN 2030

Proper shipping name : HYDRAZINE, AQUEOUS SOLUTION

Class : 8
Subsidiary risk : 6.1
Packing group : II
Labels : 8 (6.1)
EmS Code : F-A, S-B
Marine pollutant : yes

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Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

49 CFR Road

UN/ID/NA number : UN 2030

Proper shipping name : Hydrazine aqueous solution

Class : 8 Subsidiary risk : 6.1 Packing group : II

Labels : Class 8 - Corrosive substances, Division 6.1 - Toxic

substances

ERG Code : 153 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)
hydrazine monohydrate	7803-57-8	1	1

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
hydrazine monohydrate	7803-57-8	1	1

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
hydrazine monohydrate	7803-57-8	1000

SARA 313 : The following components are subject to reporting

levels established by SARA Title III, Section 313:

hydrazine 7803-57-8 >= 90 - <= 100 %

monohydrate

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):

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hydrazine 7803-57-8 >= 90 - <= 100 %

monohydrate

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

hydrazine 7803-57-8 >= 90 - <= 100 %

monohydrate

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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. CleanWater 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

hydrazine monohydrate 7803-57-8

Pennsylvania Right To Know

hydrazine monohydrate 7803-57-8

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 hydrazine monohydrate, which is/are known to the State of California to cause cancer. 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.

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)

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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 averageCeiling value not be exceeded at any time. NIOSH REL / C

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; - 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 Accelerating 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 quideline, 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.

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US / EN

