

SAFETY DATA SHEET

Version 6.11 Revision Date 11/06/2025 Print Date 11/07/2025

SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : Chloroform-d

Product Number : 612200 Brand : Aldrich CAS-No. : 865-49-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Acute toxicity (Oral) : Category 4

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Acute toxicity (Inhalation)

: Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Carcinogenicity Category 2

Reproductive toxicity Category 2

Specific target organ toxicity - single exposure Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure (Oral)

: Category 1 (Liver, Kidney)

Short-term (acute) aquatic hazard

: Category 3

Other hazards

None known.

GHS label elements

Hazard pictograms







Signal word Danger

Hazard statements : H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn

child.

H372 Causes damage to organs (Liver, Kidney) through

prolonged or repeated exposure if swallowed.

H402 Harmful to aquatic life.

Precautionary statements: **Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have

been read and understood.

P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this

Aldrich - 612200 Page 2 of 17 product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

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.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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

CAS-No. : 865-49-6

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
Chloroform-D1- Deuteration	865-49-6*	>= 90 - <= 100	-

^{*} 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 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: immediately make victim drink

water (two glasses at most).

Consult a physician.

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

: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing

media

For this substance/mixture no limitations of

extinguishing agents are given.

Specific hazards during

fire fighting

: Not combustible.

Ambient fire may liberate hazardous vapours.

Hazardous combustion

products

: Carbon oxides

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Millipore Sigma

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Hydrogen chloride gas

Specific extinguishing

methods

: No data available

Further information

: 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.

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.

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

Avoid generation of vapours/aerosols.

Further information on storage conditions

: Tightly closed.

Keep in a well-ventilated place.

Keep locked up or in an area accessible only to

qualified or authorised persons.

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Storage class : 6.1D, Non-combustible, acute toxic Cat.3 / toxic

hazardous materials or hazardous materials causing

chronic effects

Recommended storage

temperature

: Recommended storage temperature see product label.

Further information on storage stability

: Store under inert gas.

Light sensitive. 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
Chloroform-D1- Deuteration	865-49-6	TWA	10 ppm	ACGIH
		ST	2 ppm 9.78 mg/m3	NIOSH REL
		С	50 ppm 240 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 AX

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 : Fluorinated rubber

Break through time : 480 min Glove thickness : 0.7 mm

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Protective index : Full contact

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

Material : Fluorinated rubber

Break through time : 480 min
Glove thickness : 0.7 mm
Protective index : Splash contact

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

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

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

method: EN374

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

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

laboratory practices. Wash and dry hands.

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

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

Eye protection : Use equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

Safety glasses

Skin and body protection : 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 : liquid

Color : colourless

Odor : characteristic

Odor Threshold : No data available

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pH : No data available

Melting point/ range : -83 °F / -64 °C

Boiling point/boiling range : 141.6 °F / 60.9 °C

Flash point : Method: Regulation (EC) No. 440/2008, Annex, A.9

does not flash

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : The product is not flammable.

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 : ca. 265.31 hPa (ca. 77 $^{\circ}$ F / 25 $^{\circ}$ C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.500 g/mL (77 °F / 25 °C)

Solubility(ies)

Water solubility : 4.6 g/l (68 °F / 20 °C)

pH: 6.3 - 6.8

Method: Regulation (EC) No. 440/2008, Annex, A.6

Partition coefficient: n-

octanol/water

: log Pow: 1.5 (68 °F / 20 °C)

Method: Regulation (EC) No. 440/2008, Annex, A.8

Bioaccumulation is not expected.

Autoignition temperature : $> 397 \, ^{\circ}\text{F} / > 203 \, ^{\circ}\text{C}$ (ca. 1,004.6 hPa)

Method: Regulation (EC) No. 440/2008, Annex, A.15

Decomposition

temperature

: Distillable in an undecomposed state at normal

pressure.

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

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Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

Molecular weight : 120.38 g/mol

Particle characteristics

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No data available

Chemical stability : The product is chemically stable under standard

ambient conditions (room temperature) .

Contains the following

stabiliser(s):

Possibility of hazardous

reactions

: tetramethylsilane (0.05 %)

Risk of explosion with:

Ammonia **Amines**

nitrogen oxides

bases Oxygen alkali amides

organic nitro compounds

Alcohols

alkali hydroxides strong alkalis Fluorine

peroxi compounds Alkaline earth metals

Alkali metals Powdered metals

Methanol with alcoholates Methanol with

strong alkalis

Iron

in powder form various alloys sensitive to shock

Methanol with

Sodium hydroxide

magnesium

Aldrich - 612200 Page 9 of 17 in powder form

Oxygen with

alkali compounds

Aluminium in powder form

Acetone with

alkali compounds

Potassium

sensitive to shock

sodium

sensitive to shock

Violent reactions possible with:

phosphines

bis(dimethylamino)dimethyl tin nonmetallic hydrogen compounds

Powdered metals Light metals Ketones mineral acids

Strong oxidizing agents

semimetallic hydrogen compounds

Conditions to avoid : no information available

Incompatible materials : No data available

Hazardous decomposition

products

: In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity estimate Oral - 908.45 mg/kg (Calculation method)

Acute toxicity estimate Inhalation - 4 h - 3.1 mg/l - vapour(Calculation method)

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity



IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform-D1-Deuteration)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (Chloroform-D1-

Deuteration)

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.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Chloroform-D1-Deuteration:

Toxicity to algae/aguatic

ErC50 (Chlamydomonas reinhardtii (green algae)):

plants 13.3 mg/l

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

Remarks: (ECHA)

The value is given in analogy to the following

substances:

The value is given in analogy to the following

substances: Chloroform

Toxicity to daphnia and

other aquatic

invertebrates (Chronic

toxicity)

: NOEC (Daphnia magna (Water flea)): 6.3 mg/l

End point: reproduction rate

Exposure time: 21 d Test Type: semi-static test Analytical monitoring: yes

Remarks: (ECHA)

The value is given in analogy to the following

substances:

The value is given in analogy to the following

substances: Chloroform

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Toxicity to : EC50 (activated sludge): 0.48 mg/l microorganisms Exposure time: 24 h

Exposure time: 24 h Test Type: static test Remarks: (ECHA)

The value is given in analogy to the following

substances:

The value is given in analogy to the following

substances: Chloroform

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

Chloroform-D1-Deuteration:

Biodegradability : aerobic

Inoculum: Sewage sludge Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 14 d

Method: OECD Test Guideline 301C

Bioaccumulative potential

Components:

Chloroform-D1-Deuteration:

Partition coefficient: n- : log Pow: 1.5 (68 °F / 20 °C)

octanol/water Method: Regulation (EC) No. 440/2008, Annex, A.8

Remarks: Bioaccumulation is not expected.

Mobility in soil

No data available

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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 1888
Proper shipping name : Chloroform

Class : 6.1 Packing group : III

Labels : Division 6.1 - Toxic substances

Packing instruction (cargo: 680

aircraft)

Packing instruction : 680

(passenger aircraft)

IMDG-Code

UN number : UN 1888
Proper shipping name : CHLOROFORM

Class : 6.1
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

49 CFR Road

UN/ID/NA number : UN 1888
Proper shipping name : Chloroform

Class : 6.1 Packing group : III

Labels : Division 6.1 - Toxic substances

ERG Code : 151 Marine pollutant : no

Poison Inhalation Hazard : No

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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)
Chloroform-D1-Deuteration	865-49-6	10	10
Chloroform-D1-Deuteration	865-49-6	10	10 (D022)

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RO (lbs)	Calculated product RO (lbs)
Chloroform-D1-Deuteration	865-49-6	10	10

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Chloroform-D1-Deuteration	865-49-6	10000

SARA 311/312 : Acute Health Hazard Hazards : Chronic Health Hazard

SARA 313 : The following components are subject to reporting

levels established by SARA Title III, Section 313:

Chloroform- 865-49-6 >= 90 - <= 100 %

D1-Deuteration

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):

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

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):

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

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):

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

Clean Water Act

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

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Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

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

Table 117.3:

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

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

Section 307

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

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

Chloroform-D1- 865-49-6 >= 90 - <= 100 %

Deuteration

US State Regulations

Massachusetts Right To Know

Chloroform-D1-Deuteration 865-49-6

Pennsylvania Right To Know

Chloroform-D1-Deuteration 865-49-6

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 Chloroform-D1-Deuteration, 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 components of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on 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-

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1 Limits for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average
NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be

exceeded at any time during a workday

OSHA Z-1 / C : Ceiling

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA -Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-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

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 quarantee 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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