

SAFETY DATA SHEET

Version 6.6 Revision Date 09/06/2024 Print Date 09/07/2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

	Product name	:	4-Azidobenzoic acid solution	
	Product Number Brand Index-No. CAS-No.	:	778877 Aldrich 603-181-00-X 1634-04-4	
1.2	1.2 Relevant identified uses		of the substance or mixture and uses advised against	
Identified uses :		:	Laboratory chemicals, Synthesis of substances	
	Uses advised against	:	The product is being supplied under the TSCA R&D Exemption (40 CER Section 720 36). It is the recipient's responsibility to	

(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
Emergency telephone	•	
Emergency Phone #	:	800-424-9300 CHEMTREC (USA) +1-703- 527-3887 CHEMTREC (International) 24

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Specific target organ toxicity - repeated exposure (Category 1), Blood, H372

Hours/day; 7 Days/week

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For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Danger
Hazard Statements H225 H315 H372	Highly flammable liquid and vapor. Causes skin irritation. Causes damage to organs (Blood) through prolonged or repeated exposure.
Precautionary Statements	
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 P280	Do not eat, drink or smoke when using this product.
P200 P303 + P361 + P353	Wear protective gloves/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated
1202 + 1201 + 1222	clothing. Rinse skin with water/ shower.
P314	Get medical advice/ attention if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Synonyms	:	p-Azidobenzoic acid solution
Formula Molecular weight	-	C5H12O 163.13 g/mol

Component		Classification	Concentration
tert-butyl methyl	ether		
CAS-No.	1634-04-4	Flam. Liq. 2; Skin Irrit. 2;	<= 100 %
EC-No.	216-653-1	H225, H315	

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Index-No. Registration number	603-181-00-X 01-2119452786-27- XXXX		
4-azidobenzoic acid			
CAS-No.	6427-66-3	B; Skin Irrit. 2; Eye Irrit.	>= 1 - < 5 %
EC-No.	229-198-9	2A; STOT SE 3; STOT RE	
		1; H241, H315, H319,	
		H335, H372	

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

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. 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.

4.2 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

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Combustible. Aldrich - 778877

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Pay attention to flashback.

Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 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.

SECTION 6: Accidental release measures

6.1 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. For personal protection see section 8.

6.2 Environmental precautions Do not let product enter drains. Risk of explosion.

6.3 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.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Storage stabilityRecommended storage temperature

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2 - 8 °C Light sensitive.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
tert-butyl methyl ether	1634-04-4	TWA	50 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Confirmed animal carcinogen with unknown relevance to humans		en with unknown relevance to
		PEL	40 ppm 144 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

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.

Splash contact

Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 120 min Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

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

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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.

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

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.

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.

Control of environmental exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Color: light green, light yellow
b)	Odor	No data available
c)	Odor Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
I)	Vapor density	No data available
m)	Density	0.769 g/cm3
	Relative density	No data available

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- n) Water solubility No data available
- o) Partition coefficient: No data available n-octanol/water
- p) Autoignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties Not classified as explosive.
- t) Oxidizing properties none
- 9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Vapors may form explosive mixture with air.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** Warming.
- **10.5 Incompatible materials** No data available
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Acute toxicity estimate Oral - 2,551 mg/kg (Calculation method) LD50 Oral - Rat - male and female - > 2,000 mg/kg (tert-butyl methyl ether) (OECD Test Guideline 401) Symptoms: Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit., Aspiration may cause pulmonary edema and pneumonitis. LC50 Inhalation - Rat - male and female - 4 h - 85 mg/l - vapor (tert-butyl methyl ether) Aldrich - 778877

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(OECD Test Guideline 403) Symptoms: Possible damages:, mucosal irritations Acute toxicity estimate Dermal - 2,551 mg/kg (Calculation method) LD50 Dermal - Rat - male and female - > 2,000 mg/kg (tert-butyl methyl ether) (OECD Test Guideline 402)

Skin corrosion/irritation

Remarks: Mixture causes skin irritation. Skin - Rabbit (tert-butyl methyl ether) Result: Skin irritation - 4 h (OECD Test Guideline 404) Remarks: Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation

Eyes - Rabbit (tert-butyl methyl ether) Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig (tert-butyl methyl ether) Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test (tert-butyl methyl ether) Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 **Result:** negative Test Type: Ames test (tert-butyl methyl ether) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Mutagenicity (mammal cell test): micronucleus. (tert-butyl methyl ether) Test system: mouse lymphoma cells Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 **Result:** negative (tert-butyl methyl ether) Test Type: unscheduled DNA synthesis assay Species: Mouse Cell type: Liver cells Application Route: inhalation (vapor) Method: OECD Test Guideline 486 Result: negative (tert-butyl methyl ether) Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow

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Application Route: inhalation (vapor) Method: US-EPA **Result:** negative (tert-butyl methyl ether) Test Type: Mutagenicity (mammal cell test): chromosome aberration. Species: Rat Cell type: Bone marrow Application Route: inhalation (vapor) Method: US-EPA Result: negative (tert-butyl methyl ether) Test Type: Transgenic rodent somatic cell gene mutation assay Species: Rat Cell type: Bone marrow Application Route: inhalation (vapor) Method: OECD Test Guideline 488 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

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Mixture causes damage to organs through prolonged or repeated exposure. - Blood

Aspiration hazard

No data available

11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 3,000 mg/kg

Remarks: Subchronic toxicity

(tert-butyl methyl ether)

Nausea, Vomiting, Dizziness, Central nervous system depression, Aspiration or inhalation may cause chemical pneumonitis., MTBE (methyl-tert-butyl ether) is reported to metabolize to tert-butyl alcohol and formaldehyde by microsomal demethylation, MTBE (methyl-tert-butyl ether) should be considered a "potential human carcinogen" due to an increase in leydig interstitial cell tumors of testes in male rats and an increase in lymphomas, leukemias, and uterine sarcomas in female rats., In another unpublished study MTBE was shown to be carcinogenic due to "increased incidence of a rare type of kidney tumor" in male rats and an "increase in the incidence of hepatocellular adenomas" in female mice. (tert-butyl methyl ether)

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To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (tert-butyl methyl ether)

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Systemic effects: (tert-butyl methyl ether) After absorption of large quantities: (tert-butyl methyl ether) somnolence Dizziness agitation, spasms CNS disorders narcosis Unconsciousness (tert-butyl methyl ether) Other dangerous properties can not be excluded. (tert-butyl methyl ether) Handle in accordance with good industrial hygiene and safety practice. (tert-butyl methyl ether)

Components

tert-butyl methyl ether

Acute toxicity

LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401) Symptoms: Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit., Aspiration may cause pulmonary edema and pneumonitis. LC50 Inhalation - Rat - male and female - 4 h - 85 mg/l - vapor (OECD Test Guideline 403) Symptoms: Possible damages:, mucosal irritations LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit Result: Skin irritation - 4 h (OECD Test Guideline 404) Remarks: Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig

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Result: negative (OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells **Result:** negative Test Type: Ames test Test system: Salmonella typhimurium **Result:** negative Test Type: Mutagenicity (mammal cell test): micronucleus. Test system: mouse lymphoma cells Result: negative Method: OECD Test Guideline 486 Species: Mouse - male and female - Liver cells Result: negative Method: US-EPA Species: Mouse - male and female - Bone marrow Result: negative Method: US-EPA Species: Rat - male and female - Bone marrow Result: negative Method: OECD Test Guideline 488 Species: Rat - male - Bone marrow Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

Acute oral toxicity - Nausea, Vomiting, Pulmonary failure possible after aspiration of vomit., Aspiration may cause pulmonary edema and pneumonitis. Acute inhalation toxicity - Possible damages:, mucosal irritations

Specific target organ toxicity - repeated exposure

Aspiration hazard No data available

4-azidobenzoic acid

Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

Skin corrosion/irritation

Remarks: No data available

Serious eye damage/eye irritation Remarks: No data available

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Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure May cause respiratory irritation. - Upper respiratory tract

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure. - Blood

Aspiration hazard

No data available

SECTION 12: Ecological information

12.1 Toxicity

Mixture

Toxicity to fish	semi-static test LC50 - Menidia beryllina - 574 mg/l - 96 h (tert- butyl methyl ether) (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	flow-through test EC50 - Americamysis bahia (Mysid) - 187 mg/l - 96 h (tert-butyl methyl ether) (US-EPA OPPTS 850.1035)
Toxicity to algae	static test IC50 - Pseudokirchneriella subcapitata (green algae) - 491 mg/l - 96 h (tert-butyl methyl ether)
Toxicity to bacteria	static test EC10 - Pseudomonas putida - 710 mg/l - 18 h (tert-butyl methyl ether) Remarks: (ECHA)
Toxicity to fish(Chronic toxicity)	flow-through test NOEC - Pimephales promelas (fathead minnow) - 299 mg/l - 31 d (tert-butyl methyl ether) Remarks: (ECHA)
	flow-through test NOEC - Pimephales promelas (fathead minnow) - 450 mg/l - 31 d (tert-butyl methyl ether) Remarks: (ECHA)
Toxicity to daphnia and other aquatic invertebrates(Chronic	flow-through test NOEC - Daphnia magna (Water flea) - 51 mg/l - 21 d (tert-butyl methyl ether) (OPPTS 850.1300)

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toxicity)

12.2 Persistence and degradability

aerobic - Exposure time 28 d (tert-butyl methyl ether) Result: 0 % - Not readily biodegradable. (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

Biodegradability

Bioaccumulation Cyprinus carpio (Carp) - 28 d at 25 °C(tert-butyl methyl ether)

Bioconcentration factor (BCF): 1.5

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties No data available

12.7 Other adverse effects

No data available

Components

tert-butyl methyl ether semi-static test LC50 - Menidia beryllina - 574 mg/l - 96 h Toxicity to fish (OECD Test Guideline 203) flow-through test EC50 - Americamysis bahia (Mysid) - 187 Toxicity to daphnia and other aquatic mg/l - 96 h (US-EPA OPPTS 850.1035) invertebrates Toxicity to algae static test IC50 - Pseudokirchneriella subcapitata (green algae) - 491 mg/l - 96 h static test EC10 - Pseudomonas putida - 710 mg/l - 18 h Toxicity to bacteria Remarks: (ECHA) Toxicity to flow-through test NOEC - Pimephales promelas (fathead fish(Chronic toxicity) minnow) - 299 mg/l - 31 d Remarks: (ECHA) flow-through test NOEC - Pimephales promelas (fathead minnow) - 450 mg/l - 31 d Remarks: (ECHA) flow-through test NOEC - Daphnia magna (Water flea) - 51 Toxicity to daphnia and other aquatic ma/l - 21 d invertebrates(Chronic (OPPTS 850.1300)

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toxicity)

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4-azidobenzoic acid

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

DOT (US)

UN number: 2398 Class: 3 Packing group: II Proper shipping name: Methyl tert-butyl etherSOLUTION

Reportable Quantity (RQ): 1020 lbs Poison Inhalation Hazard: No

IMDG

UN number: 2398	Class: 3	Packing group: II	EMS-No: F-E, S-D
Proper shipping nar	ne: METHYL tert-	BUTYL ETHERSOLUTION	

ΙΑΤΑ

UN number: 2398 Class: 3 Packing group: II Proper shipping name: Methyl tert-butyl etherSOLUTION

SECTION 15: Regulatory information

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
tert-butyl methyl ether	1634-04-4	1000	1020

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.

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SARA 313	-	The following components are subject to reporting levels established by SARA Title III, Section 313:			
	tert-butyl methyl ether	1634-04-4	>= 90 - <= 100 %		
US State Regulations					
Massachusetts Right To k	(now				
tert-butyl methyl e	ther		1634-04-4		
Pennsylvania Right To Kr	low				
tert-butyl methyl e	ther		1634-04-4		
Maine Chemicals of High	Concern				
-	tert-butyl methyl ether 1634-04-4				
Vermont Chemicals of High	gh Concern				
Product does not c	ontain any listed	chemicals			
Washington Chemicals of	High Concern				
Product does not c	Product does not contain any listed chemicals				
The ingredients of this pr	The ingredients of this product are reported in the following inventories:				
•	-		not listed on TSCA		

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

Further information

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.

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The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com. Version: 6.6 Revision Date: 09/06/2024 Print Date: 09/07/2024

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