



## SAFETY DATA SHEET

Version 6.12 Revision Date 01/02/2025 Print Date 01/03/2025

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

#### 1.1 Product identifiers

Product name : Nitromethane

Product Number : 360554

Brand : SIGALD

Index-No. : 609-036-00-7

CAS-No. : 75-52-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

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

MilliporeSigma.

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

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

1.4 Emergency telephone

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

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### **SECTION 2. HAZARDS IDENTIFICATION**

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

Flammable liquids : Category 3

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Acute toxicity (Oral) : Category 4

Acute toxicity : Category 4

(Inhalation)

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

#### **GHS** label elements

Hazard pictograms







Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

H302 + H332 Harmful if swallowed or if inhaled.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn

child.

## 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/ light-

ing/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static dis-

charge.

P261 Avoid breathing mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this prod-

uct.

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

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POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

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

Heating may cause an explosion.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

#### **Components**

Chemical name	CAS-No.	Concentration (% w/w)
nitromethane	75-52-5	>= 90 - <= 100

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : Show this material safety data sheet to the doctor in

attendance.

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

cian.

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.

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 wa-

ter (two glasses at most). Consult a physician.

consult a physic

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

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Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

## **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing

media

: Water Foam

Carbon dioxide (CO2)

Dry powder

Unsuitable extinguishing

media

: For this substance/mixture no limitations of extin-

guishing agents are given.

Specific hazards during

fire fighting

: Avoid shock and friction.

Explosive decomposition possible on heating.

Combustible.

In the event of decomposition: danger of explosion!

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

Nitrogen oxides (NOx)

Specific extinguishing

methods

: No data available

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Merck

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.

Special protective equipment for fire-fighters

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

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:

Do not breathe vapors, aerosols.

Avoid substance contact. Ensure adequate ventilation.

Keep away from heat and sources of ignition.

Evacuate the danger area, observe emergency proce-

dures, consult an expert.

Advice for emergency responders: For personal protection see section 8.

Environmental precautions

: Do not let product enter drains.

Risk of explosion.

Methods and materials for containment and cleaning up

: Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7

and 10).

Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected

area.

#### **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and

sources of ignition.

Take precautionary measures against static discharge.

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

Avoid generation of vapours/aerosols.

Storage class : 4.1A, Other explosive hazardous materials

Recommended storage

temperature

: Recommended storage temperature see product label.

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storage stability

Further information on : Store under inert gas.

Packaging material : Suitable material: Any Metal Drum, Amber Glass Bot-

tle/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
nitromethane	75-52-5	TWA	20 ppm	ACGIH
		TWA	100 ppm	OSHA Z-1
			250 mg/m3	

**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 A (acc. to DIN 3181) for vapours of organic

compounds

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 : Viton® Break through time : 120 min Glove thickness : 0.7 mm

Protective index : Splash contact

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

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-

SIGALD- 360554 Page 6 of 17 36124 Eichenzell, Internet: www.kcl.de).

Eye protection : Use equipment for eye protection tested and ap-

proved 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 af-

ter working with substance.

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

Appearance : liquid

Color : clear, colorless

Odor : characteristic

Odor Threshold : No data available pH : No data available

Melting point/ range : -20 °F / -29 °C

Method: lit.

Boiling point/boiling range : 214.2 °F / 101.2 °C

Method: lit.

Flash point : 95 °F / 35 °C

(1,013.25 hPa)

Method: ISO 1523, closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Self-ignition : 784 °F / 418 °C

1,013.25 hPa

Upper explosion limit / Upper flammability limit

: Upper explosion limit

63.0 %(V)

Lower explosion limit / Lower flammability limit : Lower explosion limit

7.3 %(V)

Vapor pressure : No data available

Relative vapor density : 2.11

(Air = 1.0)

Relative density : No data available

Density : 1.127 g/cm3 (77 °F / 25 °C)

Method: lit.

Solubility(ies)

Water solubility : 104.5 g/l (77 °F / 25 °C)

Partition coefficient: n-

octanol/water

: log Pow: -0.24 (71.2 °F / 21.8 °C)

pH: 7

Method: OECD Test Guideline 107

GLP: yes

Bioaccumulation is not expected.

Autoignition temperature : 806 °F / 430 °C (999.8 - 1,019.1 hPa)

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

GLP: yes

Decomposition tempera-

ture

: No data available

Viscosity

Viscosity, dynamic : 0.65 mPa.s (68 °F / 20 °C)

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Method: Explosive properties

GLP: yes

Not classified as explosive.

Oxidizing properties : none

Surface tension : 73.6 mN/m, 1 g/l, 70 °F / 21 °C, OECD Test Guideline

115, GLP: yes

Molecular weight : 61.04 g/mol

Particle characteristics

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Particle size : No data available

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#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : highly reactive

highly reactive

Vapor/air-mixtures are explosive at intense warming.

Vapor/air-mixtures are explosive at intense warming.

Chemical stability : heat-sensitive

The product is chemically stable under standard ambi-

ent conditions (room temperature).

Possibility of hazardous

reactions

: Exothermic reaction with:

Hydrocarbons perchlorates

Risk of explosion with:

acids anilines strong alkalis phosphoric acid Nitric acid metallic oxides organic halides silver salt

aluminium chloride alkali hydroxides

Ammonia iodides

Halogenated hydrocarbon

Chloroform

oxyhalogenic compounds Organic Substances Oxidizing agents

Acetone

powdered aluminium

formic acid

ammonium hydroxide

Bases

calcium hypochlorite Sodium hydroxide

lithium aluminium hydride

sodium carbonate

hydrides nitrous acid conc. sulfuric acid Potassium hydroxide Calcium hydroxide

Morpholine Bromoform

SIGALD- 360554 Page 9 of 17 Hydrazine hydrate

with Methanol formaldehyde

with Air Amines with

Heavy metals

with

alkali hydroxides

Formation of explosive salts possible.

Conditions to avoid : Elevated temperatures.

Heating.

Incompatible materials : No data available

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 and female - 1,478 mg/kg

Remarks: (ECHA)

Symptoms: Nausea, Vomiting, Diarrhea

LC50 Inhalation - Rabbit - 4 h - 14.34 mg/l - vapor

Remarks: (ECHA)

Symptoms: Irritation symptoms in the respiratory tract. LD50 Dermal - Rabbit - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

## Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation Remarks: (ECHA)

## Respiratory or skin sensitization

Intracutaneous test - Guinea pig

Result: negative Remarks: (ECHA)

## Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

SIGALD- 360554 Page 10 of 17 Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Mutagenicity (mammal cell test): chromosome aberration.

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: inhalation (vapor) Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Suspected of causing cancer.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (nitromethane)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (nitromethane)

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**

Suspected of damaging the unborn child.

#### 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

Repeated dose toxicity - Rat - male and female - Oral - 28 Days - LOAEL (Lowest observed adverse effect level) - 100 mg/kg

Remarks: (ECHA)

RTECS: PA9800000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption:

Methaemoglobinemia

Absorption may result in damage of the following:

Liver Kidney

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Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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

#### **Ecotoxicity**

#### **Components:**

#### nitromethane:

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

659.2 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: APHA 231

Toxicity to daphnia and other aquatic inverte-

brates

: EC50 (Daphnia magna (Water flea)): > 103 mg/l

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

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (green

algae)): > 102 mg/l Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorgan-

isms

: EC50 (activated sludge): 310 mg/l

Exposure time: 30 min Test Type: static test

Method: OECD Test Guideline 209

GLP: yes

Remarks: The value is given in analogy to the follow-

ing substances:

The value is given in analogy to the following sub-

stances: 1-nitropropane

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#### **Ecotoxicology Assessment**

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

## Persistence and degradability

#### **Components:**

#### nitromethane:

Biodegradability : aerobic

Concentration: 2 mg/l

Result: Not readily biodegradable.

Biodegradation: 9.9 % Exposure time: 28 d

Method: OECD Test Guideline 301D

## **Bioaccumulative potential**

#### **Components:**

#### nitromethane:

Partition coefficient: n-

octanol/water

: log Pow: -0.24 (71.2 °F / 21.8 °C)

pH: 7

Method: OECD Test Guideline 107

GLP: yes

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).

#### **Components:**

#### nitromethane:

formation

Additional ecological in- : Discharge into the environment must be avoided.

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#### **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 1261 UN/ID No. Proper shipping name : Nitromethane

Class : 3 Packing group : II

Labels : Class 3 - Flammable liquids

Packing instruction (cargo: 364

aircraft)

senger aircraft)

Packing instruction (pas- : Not permitted for transport

IMDG-Code

UN number : UN 1261

: NITROMETHANE Proper shipping name

: 3 Class : II Packing group Labels 3

EmS Code : F-E, S-D Marine pollutant : no

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

Not applicable for product as supplied.

#### **National regulation**

#### 49 CFR Road

UN/ID/NA number : UN 1261 Proper shipping name : Nitromethane

: 3 Class Packing group : II

Labels : Class 3 - Flammable liquids

ERG Code : 129 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**

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 Hazard Chronic Health Hazard

**SARA 313** : The following components are subject to reporting

levels established by SARA Title III, Section 313:

nitromethane 75-52-5 >= 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):

nitromethane 75-52-5 >= 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**

nitromethane 75-52-5

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## Pennsylvania Right To Know

nitromethane 75-52-5

#### **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

## **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

### **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including nitromethane, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

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

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-

1 Limits for Air Contaminants

ACGIH / 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 Safe-

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ty 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.

Revision Date : 01/02/2025

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