Sigma-Aldrich.

# **SAFETY DATA SHEET**

Version 6.8 Revision Date 04/24/2025 Print Date 04/24/2025

# **SECTION 1. IDENTIFICATION**

#### **1.1** Product identifiers

Product name	:	2-Nitrophenyl β-D-cellobioside
Product Number Brand CAS-No.	:	N4764 Sigma 70867-33-3
Relevant identified use	es	of the substance or mixture and uses advised aga

#### 1.2 gainst

Identified uses	Laboratory chem	icals, Synthesis of substances
Uses advised against	(40 CFR Section comply with the product may not	eing supplied under the TSCA R&D Exemption 720.36). It is the recipient's responsibility to requirements of the R&D exemption. The be used for a non-exempt commercial purpose ss appropriate consent is granted in writing by

# **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
Emergency telephone		

# **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)

Not a hazardous substance or mixture.

#### Other hazards

None known. Sigma - N4764

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Not a hazardous substance or mixture.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

### Components

No hazardous ingredients according to the OSHA Hazard Communication Standard 29CFR 19101200.

# **SECTION 4. FIRST AID MEASURES**

If inhaled	:	After inhalation: fresh air.
In case of skin contact	:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	:	After eye contact: rinse out with plenty of water. Remove contact lenses.
If swallowed	:	After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.
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. FIRE-FIGHTING MEASURES**

	Insuitable extinguishing nedia	:	For this substance/mixture no limitations of extinguishing agents are given.			
	lazardous combustion roducts	:	Carbon oxides			
			Nitrogen oxides (NOx)			
	pecific extinguishing nethods	:	No data available			
	urther information	:	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.			
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Special protective : In the event of fire, wear self-contained breathing equipment for firefighters

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

Personal precautions, protective equipment and emergency procedures	:	Advice for non-emergency personnel: Avoid inhalation of dusts. 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 dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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

For precautions see section 2.2.

Further information on storage conditions	:	Tightly closed. Dry.
Storage class	:	11, Combustible Solids
Recommended storage temperature	:	-4 °F / -20 °C

# **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : No data available

#### **Personal protective equipment**

Respiratory protection : required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN

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EN 143, DIN 14387 and other accompanying
standards relating to the used respiratory protection
system.

Recommended Filter : Filter type P1 type:

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Hand protection

Material Break through time Glove thickness Protective index Manufacturer	:	Nitrile rubber 480 min 0.11 mm Full contact KCL 741 Dermatril® L
Material Break through time Glove thickness Protective index Manufacturer	::	Nitrile rubber 480 min 0.11 mm Splash contact KCL 741 Dermatril® L
Remarks	:	Handle with impervious gloves. This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D- 36124 Eichenzell, Internet: www.kcl.de).
Eye protection	:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Hygiene measures	:	Change contaminated clothing. Wash hands after working with substance.

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

Appearance

: solid

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Color		:	No data available
Odor		:	No data available
Odor T pH	hreshold	:	No data available No data available
Melting	) point	:	No data available
Boiling	point/boiling range	:	No data available
Flash p	point	:	No data available
Evapor	ation rate	:	No data available
Flamm	ability (solid, gas)	:	No data available
Flamm	ability (liquids)	:	No data available
Burnin	g rate	:	No data available
	explosion limit / flammability limit	:	No data available
	explosion limit / flammability limit	:	No data available
Vapor	pressure	:	No data available
Relativ	e vapor density	:	No data available
Relativ	e density	:	No data available
Density	/	:	No data available
Water	solubility	:	No data available
	n coefficient: n- I/water	:	No data available
Autoigi	nition temperature	:	No data available
Decom temper	position rature	:	No data available
Viscosi	ty, dynamic	:	No data available
Viscosi	ty, kinematic	:	No data available
Flow ti	me	:	No data available
Explosi Sigma - N476	ve properties 4	:	No data available

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Oxidizing properties	: No data available
Molecular weight	: 463.39 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) .	
Possibility of hazardous reactions	:	No data available	
Conditions to avoid	:	no information available	
Incompatible materials	:	Strong oxidizing agents	
Hazardous decomposition products	:	In the event of fire: see section 5	

# SECTION 11. TOXICOLOGICAL INFORMATION

## **11.1** Information on toxicological effects

#### Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available 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: 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.
- ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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- 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 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

No data available

# Persistence and degradability

No data available

#### **Bioaccumulative potential**

No data available

# Mobility in soil

No data available

#### Other adverse effects

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**

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# IATA-DGR

Not regulated as a dangerous good

# IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## National regulation

### 49 CFR Road

Not regulated as a dangerous good

Poison Inhalation Hazard : No

# Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport 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

Components	CAS-No.	Component TPQ (lbs)		
SARA 311/312 Hazards	: No SARA Hazaro			
SARA 313	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
US State Regulations				
Massachusetts Right	To Know			
No components	s are subject to the Ma	ssachusetts Right to Know Act.		
Pennsylvania Right Te	o Know			
2-Nitrophenyl	3-D-cellobioside	70867-33-3		
New Jersey Right To	Know			
2-Nitrophenyl	3-D-cellobioside	70867-33-3		
California Prop. 65				
This product doos not co	ontain any chomicals k	nown to the State of California to cause o		

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects. Sigma - N4764

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# The ingredients 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

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

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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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