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Safety Data Sheet acc. to OSHA HCS

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Revision date 11/01/2024

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1 Identificat	tion
· Product ide	ntifier
Synonym butanoic acia p-Nitropheny para-Nitroph 4-NPB NSC 6867 CAS Numbe 2635-84-9	enyl Butyrate
 Details of th Manufactur Cayman Che 1180 E. Ellsy Ann Arbor, N USA 	emical Co. worth Rd.
• Emergency During norm US/CANADA	department: Product safety department telephone number: al opening times: +1 (734) 971-3335 A: 800-424-9300 CANADA: 703-741-5970
	identification
Classificatio	identification on of the substance or mixture IS07
Sensitization	- skin 1 H317 May cause an allergic skin reaction.
• Label eleme • GHS label e The substan	

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· Hazard pictograms	(Contd. from page 1)
GHS07	
 Signal word Warning Hazard statements H317 May cause an allergic skin reaction. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves. P302+P352 If on skin: Wash with plenty of water. P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see on this label). P501 Dispose of contents/container in accordance with local/regional/nati regulations. Information pertaining to particular dangers for man and environment: Classification system: NFPA ratings (scale 0 - 4) 	ional/international
$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	
 HMIS-ratings (scale 0 - 4) HEALTH Health = 0 Fire = 0 Reactivity = 0 	
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Classification according to (d)(1)(ii) of § 1910.12000 The SDS issuer does not object to the classifications provided by importers or precursor products. Hazards not otherwise classified There are no adverse physical or health effects known that are not covered by the hat Hazard Communications Standard. 	
3 Composition/information on ingredients	
 Chemical characterization: Substances CAS No. Description 2635-84-9 4-Nitrophenyl Butyrate Identification number(s) EC number: 628-908-8 	
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4 First-aid measures

· Description of first aid measures

• After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.
- · Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- · Requirements to be met by storerooms and receptacles: No special requirements.

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- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physical and ch General Information	nemical properties	
Physical state	Solid	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C10H11NO4	
Molecular Weight	209.2 g/mol	
Storage Buffer	0	
Odor threshold:	Not determined.	
Formulation		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flammability:	Product is not flammable.	

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Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH-value:	Not applicable.	
Viscosity:		
Kinematic:	Not applicable.	
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml; DMSO:PBS (pl	
	7.2) (1:1): 0.50 mg/ml; Ethanol: 15 mg/ml	
Dynamic:	Not applicable.	
Solubility in / Miscibility with		
Water:	Not determined.	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure:	Not applicable.	
Vapor pressure:		
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not applicable.	
Particle characteristics	Not determined.	
Other information		
Appearance:		
Form:	neat oil	
Important information on protection of he	alth	
and environment, and on safety.		
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Change in condition	· ·	
Evaporation rate	Not applicable.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.

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- · Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed. • Alternative sources for toxicological information
- No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

UN-Number		
DOT, IMDG, IATA	not regulated	
UN proper shipping name		
DOT, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	not regulated	
Packing group		
DOT, IMDG, IATA	not regulated	

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· Environmental hazards:	Not applicable.	
 Transport in bulk according to Anne MARPOL73/78 and the IBC Code 	x II of Not applicable.	
• Special precautions for user	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- Contact: -
- Date of previous version 09/15/2022
- Date of preparation 11/01/2024
- Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health

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TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Sensitization - skin 1: Skin sensitisation – Category 1 • * Data compared to the previous version altered.

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