# SAFETY DATA SHEET



#### 1. Identification

in adminibution			
Product identifier	Butalbital CIII		
Other means of identification			
Catalog number	1081002		
CAS number	77-26-9		
Synonyms	Allylbarbituric acid		
Chemical name	2,4,6(1H,3H,5H)-Pyrimidinetric	one, 5-(2-methyl	propyl)-5-(2-propenyl)-
Recommended use	Specified quality tests and ass	say use only.	
<b>Recommended restrictions</b>	Not for use as a drug. Not for a	administration to	humans or animals.
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States		
Telephone Website E-mail		301-816-8129	
Emergency phone number		1-800-424-9300	
		+1 703-527-3887	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 3
	Reproductive toxicity		Category 1
	Specific target organ toxicity, s	single exposure	
Environmental hazards	Not classified.	<b>C</b> .	
OSHA defined hazards	Not classified.		
Label elements			
		<u>;</u> >	
Signal word	Danger		
Hazard statement	Toxic if swallowed. May cause	e drowsiness or c	dizziness. May damage fertility or the unborn child.
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container	in accordance w	vith local/regional/national/international regulations.

### 3. Composition/information on ingredients

Substance

Substance			
Chemical name	Common name and synonyms	CAS number	%
Butalbital CIII	Allylbarbituric acid	77-26-9	100
4. First-aid measures			
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.		
Skin contact	Rinse skin with water/shower. Get medical at	ttention if irritation develops and	persists.
Eye contact	Rinse with water. Get medical attention if irrit	ation develops and persists.	
Ingestion	Do not induce vomiting without advice from p low so that stomach content doesn't get into	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
Most important symptoms/effects, acute and delayed	Pharmacologically active material. Occupational exposure may cause physiological effects.		
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Treatment of barbiturate overdose may include the following: Do NOT induce vomiting due to the potential for CNS depression. Administer activated charcoal as a slurry. Perform gastric lavage soon after ingestion of a large amount of poison (within one hour). Protect airway by placement in Trendelenburg or left lateral decubitus position or by endotracheal intubation. Control any seizures first. For hypotension, infuse isotonic fluid. If seizures persist, administer dopamine or norepinephrine. Forced alkaline diuresis is of NO value in the treatment of short-acting barbiturate intoxication. Hemodialysis has been successful in barbiturate removal. Charcoal or resin hemoperfusion is more effective and should be considered in patients with hypotension not responsive to supportive care.		
General information	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.		ar with workplace phone number is ing is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire- materials.	-extinguishing media appropriate	e for surrounding
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.		
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.		
Fire fighting equipment/instructions	Use water spray to cool unopened containers Firefighters should use self-contained breath		
Specific methods	Use standard firefighting procedures and cor	nsider the hazards of other involve	ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release mea	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear ap inhalation of dust from the spilled material. D unless wearing appropriate protective clothin protection, see section 8 of the SDS.	o not touch damaged containers	or spilled material

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7. Handling and storage			
Precautions for safe handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.		
Conditions for safe storage, including any incompatibilities	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.		
8. Exposure controls/perse	onal protection		
Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.		
Skin protection			
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.		
Other	Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.		
Respiratory protection	Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.		

# 9. Physical and chemical properties

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Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Powder.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	278.6 - 285.8 °F (137 - 141 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C

Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Cold water: Slightly soluble.	
Solubility (other)	Alcohol: Freely soluble. Chloroform: Freely soluble. Ether: Freely soluble. Acetone: Soluble.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Chemical family	5,5-disubstituted pyrimidinetrione.	
Molecular formula	C11H16N2O3	
Molecular weight	224.26 224.26 g/mol	

#### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	None known.
Hazardous decomposition products	NOx. Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

#### 11. Toxicological information

#### Information on likely routes of exposure

Information on likely routes of ex	posure	
Inhalation	May cause drowsiness and dizziness.	
Skin contact	Knowledge about health hazard is incomplete.	
Eye contact	Knowledge about health hazard is incomplete.	
Ingestion	Toxic if swallowed.	
Symptoms related to the physical, chemical, and toxicological characteristics	Barbiturates: Confusion. Drowsiness. Dizziness. Weakness. Confusion. Hallucinations. Mental depression. Unusual excitement. Decrease in or loss of reflexes. Fever. Chills. Shortness of breath. Slow heartbeat. Slurred speech. Unusual movement of the eyes. Gastrointestinal disturbances. Sores on lips or mouth. Swelling of face. Skin rash. Hives. Bleeding or bruising. Chest tightness.	
Information on toxicological effe	cts	
Acute toxicity	Toxic if swallowed. A related material showed oral toxicity in animals.	
Skin corrosion/irritation	Knowledge about health hazard is incomplete.	
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.	
Respiratory or skin sensitization		
Respiratory sensitization	Knowledge about health hazard is incomplete.	
Skin sensitization	Knowledge about health hazard is incomplete.	
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.	
Carcinogenicity	Knowledge about carcinogenicity is incomplete.	
IARC Monographs. Overall E Not listed.		
	I Substances (29 CFR 1910.1001-1052)	
Not regulated. US. National Toxicology Pro Not listed.	gram (NTP) Report on Carcinogens	

Reproductive toxicity	May damage fertility or the unborn child. Some barbiturates have been shown to cause an increased incidence of fetal abnormalities. Therapeutic use during the last trimester of pregnancy may cause physical dependence and withdrawal in the newborn.
Specific target organ toxicity - single exposure	Narcotic effects.
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmacologically active material. Occupational exposure may cause physiological effects.
12. Ecological information	1

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

#### 13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

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UN2811 Toxic solid, organic, n.o.s. (Butalbital)
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UN2811
Toxic solid, organic, n.o.s. (Butalbital)
6.1
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111
Allowed with restrictions.
Allowed with restrictions.
Not applicable.





It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

#### 15. Regulatory information

Standard, 29 ( TSCA Section 12(b) Export Notification (40 Not regulated. CERCLA Hazardous Substance List (40 CF Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (	R 302.4) 29 CFR 1910.1001-1052) Act of 1986 (SARA)
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OSHA Specifically Regulated Substances (	act of 1986 (SARA)
Not regulated.	
Superfund Amendments and Reauthorization A	
SARA 302 Extremely hazardous substance	
Not listed.	
SARA 311/312 Hazardous Yes	
chemical	
•	(any route of exposure)
	organ toxicity (single or repeated exposure)
SARA 313 (TRI reporting)	
Not regulated.	
Other federal regulations	
Clean Air Act (CAA) Section 112 Hazardous	s Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Section 112(r) Acciden	tal Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act Not regulated. (SDWA)	
Drug Enforcement Schedule III - 2	2100
Administration (DEA) (21 CFR 1308.11-15)	
US state regulations	
California Proposition 65	
California Proposition 65 - CRT: Listed	date/Developmental toxin
Butalbital CIII (CAS 77-26-9)	Listed: October 1, 1992
International Inventories	
Country(s) or region Inventory nam	ne On inventory (yes/no)*
	entory of Chemical Substances (AICS) Yes
Canada Domestic Sub	stances List (DSL) Yes
Canada Non-Domestic	Substances List (NDSL) No
China Inventory of E	xisting Chemical Substances in China (IECSC) No
Europe European Inve Substances (E	entory of Existing Commercial Chemical Yes INECS)

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

lssue date Revision date	09-27-2006 11-26-2018
Version #	02
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