

Section 1: Identification

Product Name	Menadione Sodium Bisulfite		
Commercial Name	Not available.		
Product Use	Laboratory chemicals, Synthesis of substances		
Restrictions On Use	Not available.		
Product Code	30-4342		
Company	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760	In case of emergency contact: CHEMTREC (24hr) 1-800-424-9300	

Section 2: Hazard(s) Identification

OSHA Haz Com: Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410

Signal Word WARNING

Hazard Statement(s) Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention	P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ eye protection/ face protection.
Response	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. P391 Collect spillage.
Storage	Not available.
Disposal	P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture	Substance
Components	Menadione Sodium Bisulfite >= 95%
% By Weight	100
CAS#	130-37-0
Molecular Weight	276.24 g/mole
Chemical Formula	C11-H9-Na-O5-S
Synonym(s)	2 - Methyl - 1,4 - naphthoquinone - Sodium Bisulfite

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Menadione Sodium Bisulfite >= 95%	130-37-0	<=100	Not available	Not available

Section 4: First-Aid Measures

Inhalation	After inhalation: fresh air.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Eye Contact	After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Ingestion	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Symptoms/Effects	
Acute	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Delayed	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water Foam Carbon dioxide (CO₂) Dry powder Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon oxides Sulfur oxides Sodium oxides Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

Firefighters Special Equipment and Precautions

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. 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

Handling: Wash skin thoroughly after handling. Wear protective gloves Storage; Tightly closed. Dry. Storage stability: Recommended storage temperature -20 °C Storage class (TRGS 510): 11: Combustible Solids

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal Protection

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: 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L 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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection: protective clothing Respiratory protection: required when dusts 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.

Section 9: Physical and Chemical Properties

Appearance	Solid.		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	Not available	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	log Pow: -2.458	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Not available.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	In correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Hazardous Polymerization	Violent reactions possible with: Reducing agents, alkalines
Conditions to Avoid	Exposure to light may affect product quality.
Incompatible Materials	Not available.
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information
RTECS QK3682000

Acute Toxicity

Acute toxicity no data available Irritation and corrosion no data available Sensitisation Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. Chronic exposure IARC: No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component 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 identified as a carcinogen or potential carcinogen by OSHA. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Potential Health Effects Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation. Ingestion May be harmful if swallowed.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available.

Routes of Entry

Not available.

Symptoms Related to Exposure

Not available.

Potential Health Effects

Not available.

Target Organ(s) Not available.**Section 12: Ecological Information****Ecotoxicity**

Not available

Persistence and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

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. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

SARA 302 Components This material does not contain any components with a section 302 EHS TPQ. SARA 313 Components 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. SARA 311/312 Hazards Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Menadione sodium bisulfite CAS-No. 130-37-0 Revision Date New Jersey Right To Know Components Menadione sodium bisulfite CAS-No. 130-37-0 Revision Date

Other

WHMIS (Canada): Not controlled under WHMIS (Canada).



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Menadione Sodium Bisulfite

30-4342

Section 16: Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.