



Safety Data Sheet

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

Idebenone

30-3808

Section 1: Identification

Product Name Idebenone
Commercial Name Not available.
Product Use Laboratory chemicals, Synthesis of substances
Restrictions On Use Not available
Product Code 30-3808
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: Not available
CFR 1910.1200
Signal Word NON-HAZARDOUS
Hazard Statement(s) Not available
Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention Not available
Response Not available
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Idebenone
% By Weight 100
CAS# 58186-27-9
Molecular Weight 338.44 g/mole
Chemical Formula C₁₉H₃₀O₅
Synonym(s) 6-(10-Hydroxydecyl)-2,3-dimethoxy-5-methyl-1,4-benzoquinone; 2-(10-Hydroxydecyl)-5,6-dimethoxy-3-methyl-2,5-cyclohexadiene-1,4- 6-(10-Hydroxydecyl)ubiquinone; Avan; Daruma

Mixtures				
Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Idebenone	58186-27-9	100	N/A	N/A

Section 4: First-Aid Measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Symptoms/Effects	
Acute	Acute Health Effects:Slightly hazardous in case of skin contact(irritant),of eye contact (irritant),of ingestion,of inhalation.
Delayed	Repeated or prolonged exposure is not known to aggravate medical condition
Immediate Medical Attention	Not available.

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

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.

Unsuitable Extinguishing Media

Do not use water jet.

Products of Combustion

These products are carbon oxides (CO, CO₂).

Firefighters Special Equipment and Precautions

Not available.

Section 6: Accidental Release Measures

SMALL SPILL: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. LARGE SPILL: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Handling: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents. Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 9: Physical and Chemical Properties

Appearance	Yellow to Yellow-orange. solid.		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	52°C (125.6°F) - 55 °C	pH	Not applicable
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	Not available.	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)	Easily soluble in methanol. Insoluble in cold water, hot water. Very soluble in ethanol, chloroform		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	The product is stable.
Hazardous Polymerization	Corrosivity: Non-corrosive in presence of glass. Hazardous polymerization will not occur.
Conditions to Avoid	Excess, incompatible materials, dust generation.
Incompatible Materials	Reactive with oxidizing agents.
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information
RTECS GU5290000

Acute Toxicity

Acute oral toxicity (LD50): 10000 mg/kg [Rat]. Acute Potential Health Effects: Skin: Contact with skin may cause irritation. Eyes: May cause eye irritation. Inhalation: May cause irritation of the upper respiratory tract. Ingestion: May cause irritation of the gastrointestinal/digestive tract causing gastritis, anorexia, abdominal pain, vomiting, nausea, hypermotility, diarrhea. May affect respiration (respiratory depression), behavior (lethargy, drowsiness, somnolence). Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may cause gastrointestinal/digestive tract irritation with symptoms similar to that of acute ingestion.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available

Carcinogenicity

Not available

Reproductive Toxicity

Not available



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Routes of Entry

Inhalation. Ingestion.

Symptoms Related to Exposure

Repeated or prolonged exposure is not known to aggravate medical condition

Potential Health Effects

Acute Health Effects:Slightly hazardous in case of skin contact(irritant),of eye contact (irritant),of ingestion,of inhalation.

Target Organ(s)

Not available

Section 12: Ecological Information

Ecotoxicity

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise. Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

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 must be disposed of in accordance with federal, state and local environmental control regulations.

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

Federal and State Regulations:No products were found. Other Regulations: Not available. WHMI DSCL(EEC): This product is not classified according to the EU regulations. S24/25-Avoid contact with skin and eyes. HMIS(U.S.A.): Health Hazard: 1 Fire Hazard: 1 Reactivity:0 Personal Protection:E National Fire Protection Association(U.S.A.): Health: 1 Flammability: 1 Reactivity:0 Specific hazard: Protective Equipment: Gloves. Lab coat. Dust respirator.Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Other

Not available

Section 16: Other Information

Other Special Considerations:Not available. The information above is believed to be accurate and represents the best information currently available to us.However,we make no warranty of merchantability or any other warranty, ogress or implied,with respect to such information, and we assume no liability resultãngfrom its use.Users should make their own investigations to determine the suitability of the ârformation for their particular puposes.In no event shall ScienceLab.com be liable for any claims, dossed, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages,howsoever arising, even âf ScienceLab.com has been advised of the possibility of such damages