

1 - Product and Company Information

ProductNameDANTROLENE SODIUM

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Not hazardous according to Directive 67/548/EEC.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
DANTROLENE SODIUM	14663-23-1	238-706-8	None

FormulaC14H9N4NaO5  
Molecular Weight336.2 AMU  
SynonymsDantorolene sodium \* Dantrium \* Dantrolene sodium \* F-400 \* 2,4-Imidazolidinedione, 1-(((5-(4-nitrophenyl)-2-furanyl)methylene)amino)-, sodium salt \* 1-(((5-(p-Nitrophenyl)furfurylidene)amino)hydantoin sodium

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.  
Hand Protection: Protective gloves.  
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

AppearancePhysical State: Solid

Property	Value	At Temperature or Pressure
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pH  
BP/BP Range  
MP/MP Range  
Flash Point

N/A  
N/A  
N/A  
N/A

Flammability  
Autoignition Temp  
Oxidizing Properties

N/A  
N/A  
N/A

Explosive Properties  
Explosion Limits  
Vapor Pressure

N/A  
N/A  
N/A

Partition Coefficient  
Viscosity

N/A  
N/A

Vapor Density  
Saturated Vapor Conc.  
Evaporation Rate

N/A  
N/A  
N/A

Bulk Density  
Decomposition Temp.  
Solvent Content

N/A  
N/A  
N/A

Water Content  
Surface Tension  
Conductivity

N/A  
N/A  
N/A

Miscellaneous Data  
Solubility

N/A  
N/A

10 - Stability and Reactivity

STABILITY

Stable: Stable.  
Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: MU3875000

ACUTE TOXICITY

LDLO  
Oral  
Woman  
600 mg/kg  
Remarks: Liver:Hepatitis (hepatocellular necrosis), diffuse.  
Gastrointestinal:Other changes. Gastrointestinal:Nausea or vomiting.

LD50  
Oral  
Rat  
7432 mg/kg  
Remarks: Behavioral:Muscle weakness. Behavioral:Ataxia. Lungs, Thorax, or Respiration:Respiratory depression.

LD50  
Intraperitoneal  
Rat  
413 MG/KG  
Remarks: Behavioral:Muscle weakness. Behavioral:Ataxia. Lungs, Thorax, or Respiration:Respiratory depression.

LD50  
Subcutaneous  
Rat  
>16 GM/KG  
Remarks: Blood:Changes in spleen. Lungs, Thorax, or Respiration:Dyspnea.

LD50  
Intravenous  
Rat  
>50 MG/KG

LD50  
Oral  
Mouse  
1188 mg/kg

LD50  
Intraperitoneal  
Mouse  
534 MG/KG  
Remarks: Lungs, Thorax, or Respiration:Respiratory depression. Behavioral:Ataxia. Behavioral:Muscle weakness.

LD50  
Subcutaneous  
Mouse  
>16 GM/KG  
Remarks: Blood:Changes in spleen. Lungs, Thorax, or Respiration:Dyspnea.

LD50  
Intravenous  
Mouse  
>50 MG/KG

LD50  
Oral  
Dog  
> 10550 mg/kg

SIGNS AND SYMPTOMS OF EXPOSURE

Damage to the liver. May cause drowsiness, dizziness, weakness, general malaise, fatigue, diarrhea, gastrointestinal upset or bleeding, speech and vision disorders, tachycarida. Exposure can cause:

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: May cause eye irritation.  
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.  
Ingestion: May be harmful if swallowed.

TARGET ORGAN INFORMATION

Liver. Skeletal muscle.

CHRONIC EXPOSURE - TERATOGEN

Species: Rat  
Dose: 500 MG/KG  
Route of Application: Oral

Exposure Time: (14D PRE/7-17D PREG)  
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain). Specific Developmental Abnormalities: Musculoskeletal system.

Species: Rabbit  
Dose: 260 MG/KG  
Route of Application: Oral  
Exposure Time: (6-18D PREG)  
Result: Specific Developmental Abnormalities: Musculoskeletal system.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Woman  
Dose: 3143 UG/KG  
Route of Application: Intravenous  
Exposure Time: (39W PREG)  
Result: Maternal Effects: Uterus, cervix, vagina.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

S-PHRASES: 22-24/25  
Do not breathe dust. Avoid contact with skin and eyes.

Not hazardous according to Directive 67/548/EEC.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2  
Self-Classification

16 - Other Information



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WARRANTY:

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