

MATERIAL SAFETY DATA SHEET

According to EC Directive 91/155/EC

Date of issue: JAN.02, 2010

Section 1. Identification of the substance and of the company

Product Name: DANTROLENE SODIUM

Company : Jinan Jinda Pharmaceutical Chemistry Co. Ltd.

Address: 29 Hong lou west road, Jinan250100, Shandong, China

Address of production site:

Mingshui Town, Zhangqiu, Jinan 250200, Shandong China

Section 2. Composition / Information on Ingredient

Substance Name: DANTROLENE SODIUM

Formula: C₁₄H₉N₄NaO₅

Molecular Weight: 336.2 g/mol

Chemical Name:

1-[[[5-(4-Nitrophenyl)-2-furanyl]-methylene]amino]-2,4-imidazolidinedione sodium salt

CAS NO.:14663-23-1

Section 3. Hazards Identification

EMERGENCY OVERVIEW: May cause skin irritation and/or dermatitis

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed.

Skin contact: May cause allergic skin reaction

Eye contact: Avoid contact with eyes

Statements of hazard: MAY CAUSE ALLERGIC SKIN REACTION

Section 4. First Aid Measures

INGESTION

Rinse mouth with water provided person is conscious. Get medical attention immediately.

INHALATION

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Contact medical service or doctor immediately.

SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water. Contact a physician if irritation persists.

EYE CONTACT

In case of contact with eyes, immediately flush eyes, holding eyelids open, with copious amounts of water for at least 15 minutes. Contact medical service or doctor immediately.

Section 5. Fire Fighting Measures
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Flammable Properties

Flash Point: N/A

Method Used: N/A

Flammable limits in Air, % by Volume

LEL: N/A

UEL: N/A

Extinguishing Media: Atomized water, powder, foam, or CO₂

Fire Fighting

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

Section 6. Accidental Release Measures

Personal Precaution(s): Use personal protective equipment

Environmental precautions: Prevent product from entering drains.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal

Section 7. Handling and Storage.

HANDLING

User Exposure: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE:

Suitable: Keep tightly closed. Store in a cool dry place.

Section 8. Exposure Controls /Personal Protection
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Engineering controls: Ensure adequate ventilation

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Protective or other plastic material gloves

Eye protection: Safety glasses with side-shields.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical /Chemical Properties

Appearance: Powder solid

Molecular Weight: 336.2 g/mol

Formula: C₁₄H₉N₄NaO₅

Melting point/range: 230°C-235°C

Boiling point/range: N/A

Flash point: Not determined

Vapor pressure: N/A

Evaporation rate: N/A

Section 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.

Polymerization: None under normal processing

Conditions to avoid: Exposure to air or moisture over prolonged periods

Section 11. Toxicological Information

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

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

TOXICITY DATA: N/A

Section 12. Ecological Information

Elimination information (persistence and degradability)

No data available

Ecotoxicity effects

No data available

Further information on ecology

No data available

Section 13. Disposal Considerations

Waste from residues / unused products

Waste disposal must be in accordance with appropriate Federal, State, and local environmental regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

Contaminated packaging

Do not re-use empty containers

Section 14. Transport Information

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15. Regulatory Information

EU ADDITIONAL CLASSIFICATION

S: 22 24/25

Safety Statements: Do not breathe dust. Avoid contact with skin and eyes.

US CLASSIFICATION AND LABEL TEXT

US Statements: Caution: Avoid contact and inhalation .Target organ(S): Skeletal muscle .Liver

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No.

CANADA REGULATORY INFORMATION

WHMIS Classification: This products has been classified accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR

DSL: No.

NDSL: No.

Section 16. Other Information

Further information

License granted to make unlimited paper copies for internal use only. 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. We shall not be held liable for any damage resulting from handling or from contact with the above product.