Material Safety Data Sheet

Date Printed: 09/AUG/2005 Date Updated: 17/MAR/2004 Version 1.6 According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

1 - Product and Company Information

HYDROCORTISONE 21-ACETATE Product Name Product Number H4126 Sigma-Aldrich Pty. Ltd. Company 12 Anella Avenue Castle Hill NSW 2154 Technical Phone # +61 2 9841 0555 (1800 800 097) +61 2 9841 0500 (1800 800 096) Fax +44 8701906777 (1800 448 465) Emergency Phone #

2 - Composition/Information on Ingredients

Product Name CAS # EC no Annex T Index Number HYDROCORTISONE 21-ACETATE 50-03-3 200-004-4 None

Formula Molecular Weight Synonyms

C23H32O6 404.5 AMU

Abbocort * Acetate-AS * Aceto-cort * 21-Acetoxy-11-beta, 17-alpha-dihydroxypregn-4-ene-3,20-dione * Bambicort * Berlison F * Biocortar * Carmol HC * Chemysone * Collusul-HC * Compound F acetate * Cortacream * Cortaid * Cortef acetate * Cortell * Cortes * Corticosterone, 17-hydroxy-, 21-acetate * Cortifoam * Cortisol acetate * Cortril acetate * Cortril acetate-AS * 11-beta, 17-alpha-Dihydroxy-21-acetoxypregesterone * Epifoam * Eye-Cort * Fernisone * HA * Hycortole acetate * Hydrin-2 *

17-alpha-Hydroxycorticosterone acetate * 17-alpha-Hydrocorticosterone 21-acetate * Hydrocortisat * Hydrocortisone acetate * Hydrocortisone 21-acetate * Hydrocortistab * Hydrocortone acetate * Hydrosone * Hydroxy

corticosterone acetate *

17-Hydroxycorticosterone acetate *

17-Hydroxycorticosterone-21-acetate * Hysone-A * Isopto-hydrocortisone * Lanacort * Mysone * NSC 741 * Pabracort * Pregn-4-ene-3,20-dione, 21-(acetoxy)-11,17-dihydroxy-, (11-beta)- * Pregn-4-ene-3,20-dione,

3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT Possible risk of harm to the unborn child.

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

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 immediately.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

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

SPECTAL 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

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

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: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator. Hand Protection: Compatible chemical-resistant gloves. Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

Appearance Color: White Form: Powder Value Property At Temperature or Pressure На N/ABP/BP Range N/A 223 °C MP/MP Range Flash Point N/A Flammability N/A Autoignition Temp N/A
Oxidizing Properties N/A
Explosive Properties N/A Explosion Limits N/AVapor Pressure N/A SG/Density N/APartition Coefficient N/A Viscosity N/A Vapor Density N/A Saturated Vapor Conc. N/A Evaporation Rate N/A Bulk Density N/ADecomposition Temp. N/A Solvent Content N/A Water Content N/A Surface Tension N/A Conductivity N/A Miscellaneous Data N/A Solubility N/A

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions of Instability: May decompose on exposure to light.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

RTECS NUMBER: GM8960000

ACUTE TOXICITY

LD50

Intraperitoneal Mouse 2300 MG/KG

LD50 Subcutaneous

Mouse 45050 UG/KG

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: Readily absorbed through skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and

upper respiratory tract.

Multiple Routes: May be harmful by inhalation, ingestion, or

skin absorption.

TARGET ORGAN INFORMATION

Immune system. Pituitary. Adrenal cortex.

CHRONIC EXPOSURE - MUTAGEN

Mouse

60 MG/KG

Intraperitoneal

DNA damage

Mouse

150 MG/KG

Intraperitoneal

Other mutation test systems

CHRONIC EXPOSURE - TERATOGEN

Result: Possible risk of congenital malformation in the fetus.

Species: Rat Dose: 1 GM/KG

Route of Application: Oral Exposure Time: (6-15D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death.

Species: Rat

Dose: 1500 MG/KG

Route of Application: Oral Exposure Time: (6-15D PREG)

Result: Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Craniofacial

(including nose and tongue).

Species: Rat Dose: 600 MG/KG

Route of Application: Subcutaneous

Exposure Time: (7-14D PREG)

Result: Specific Developmental Abnormalities: Endocrine system.

Species: Rat

Dose: 200 MG/KG

Route of Application: Subcutaneous

Exposure Time: (7-14D PREG)

Result: Effects on Embryo or Fetus: Extra embryonic structures

(e.g., placenta, umbilical cord).

Species: Mouse Dose: 125 MG/KG

Route of Application: Oral Exposure Time: (6-15D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Craniofacial (including

nose and tongue).

Species: Mouse Dose: 250 MG/KG

Route of Application: Subcutaneous

Exposure Time: (12D PREG)

Result: Specific Developmental Abnormalities: Urogenital system.

Species: Mouse Dose: 75 MG/KG

Route of Application: Subcutaneous

Exposure Time: (10-12D PREG)

Result: Specific Developmental Abnormalities: Craniofacial

(including nose and tongue). Specific Developmental

Abnormalities: Musculoskeletal system. Specific Developmental

Abnormalities: Other developmental abnormalities.

Species: Mouse Dose: 84 MG/KG

Route of Application: Subcutaneous

Exposure Time: (10-12D PREG)

Result: Effects on Embryo or Fetus: Fetal death.

Species: Mouse Dose: 50 MG/KG

Route of Application: Subcutaneous

Exposure Time: (14D PREG)

Result: Specific Developmental Abnormalities: Eye, ear.

Species: Mouse Dose: 1200 MG/KG

Route of Application: Intramuscular

Exposure Time: (10-21D PREG)

Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Effects on Newborn: Live birth

index (# fetuses per litter; measured after birth).

Species: Mouse Dose: 320 MG/KG

Route of Application: Intramuscular

Exposure Time: (11D PREG)

Result: Specific Developmental Abnormalities: Craniofacial

(including nose and tongue).

Species: Mouse Dose: 200 MG/KG

Route of Application: Parenteral

Exposure Time: (11D PREG)

Result: Specific Developmental Abnormalities: Craniofacial

(including nose and tongue).

Species: Rabbit Dose: 13 MG/KG

Route of Application: Oral Exposure Time: (6-18D PREG)

Result: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Musculoskeletal system.

CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat Dose: 2 MG/KG

Route of Application: Intraperitoneal

Exposure Time: (2-5D PREG)

Result: Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of

implants per corpora lutea).

Species: Rat Dose: 350 MG/KG

Route of Application: Subcutaneous

Exposure Time: (1-7D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Species: Mouse Dose: 64 MG/KG

Route of Application: Intramuscular

Exposure Time: (11D PREG)

Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Pig Dose: 100 MG/KG

Route of Application: Intramuscular

Exposure Time: (12D PRE)

Result: Effects on Fertility: Other measures of fertility

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.

ТАТА

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 63

Possible risk of harm to the unborn child.

S-PHRASES: 36/37

Wear suitable protective clothing and gloves.

16 - Other Information

WARRANTY

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 Inc., 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. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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