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# IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Hydrocortisone Sodium Succinate for Injection

Solu-Cortef; HYDROCORTISON Trade Name:

Hydrocortisone sodium succinate Powder For Solution For Injection or Infusion, IM/IV Synonyms:

**Chemical Family:** Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used as anti-inflammatory

**Details of the Supplier of the Safety Data Sheet** 

Pfizer Ltd Pfizer Inc **Pfizer Pharmaceuticals Group** Ramsgate Road 235 East 42nd Street Sandwich, Kent New York, New York 10017 **CT13 9NJ** 

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### 2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

**GHS - Classification** 

Reproductive Toxicity: Category 2

**US OSHA Specific - Classification** 

Physical Hazard: Combustible Dust

**EU Classification:** 

EU Indication of danger: Toxic to Reproduction: Category 3

EU Risk Phrases:

R63 - Possible risk of harm to the unborn child.

**Label Elements** 

Signal Word: Warning

H361d - Suspected of damaging the unborn child **Hazard Statements:** May form combustible dust concentrations in air

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations

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Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Non-Dangerous Goods.

**Note:** This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Hydrocortisone Sodium Succinate	125-04-2	204-725-5	Repr.Cat.3;R63	Repr. 2 (H361d)	91.3

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Sodium phosphate, monobasic	7558-80-7	231-449-2	Not Listed	Not Listed	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	Not Listed	Not Listed	*

Additional Information: \* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

**Description of First Aid Measures** 

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

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Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** 

Carbon dioxide, carbon monoxide

Products:

**Fine / Explosion Hazards:** Fine particles (such as dust and mists) may fuel fires/explosions.

**Advice for Fire-Fighters** 

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

### **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the so

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

**Additional Consideration for** 

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

### 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): No data available

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hydrocortisone Sodium Succinate** 

Pfizer OEL TWA-8 Hr: 100μg/m³, Skin

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

**Equipment:** protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

**Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:PowderColor:White to off-whiteOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
Solubility:
PH:
No data available
Soluble: Water
No data available:
Water
No data available.
No data available.
No data available.
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

**Hydrocortisone Sodium Succinate** 

No data available

Sodium phosphate, dibasic

No data available

Sodium phosphate, monobasic

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
No data available
No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available

No data available

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# 10. STABILITY AND REACTIVITY

Reactivity: No data available

**Chemical Stability:** Stable under recommended storage conditions. Solutions are unstable after 4 hours.

**Possibility of Hazardous Reactions** 

Oxidizing Properties:
Conditions to Avoid:

No data available
Exposure to light

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

**Products:** 

### 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

**Short Term:** May cause slight irritation; May cause skin irritation. (based on components). May be

absorbed through the skin in harmful amounts. Central nervous system effects such as headache, dizziness, drowsiness, fatigue, and lack of muscular coordination can also occur.

May cause stomach irritation, diarrhea, nausea, or vomiting.

**Long Term:** Animal studies have shown a potential to cause adverse effects on the fetus. However,

occupational handling of this product is not expected to result in relevant exposures.

Known Clinical Effects: Effects on vision have been seen during clinical use. Drugs of this class may cause Cushing's

syndrome, manifested by moon face, obesity, headache, acne, thirst, increased urination, impotence, menstrual irregularities, facial hair growth, and mental changes. Clinical use may cause an increase in blood pressure (hypertension). Individuals sensitive to this material or

other materials in its chemical class may develop allergic reactions.

### Acute Toxicity: (Species, Route, End Point, Dose)

### **Hydrocortisone Sodium Succinate**

Rat Oral LD 50 5000 mg/kg

Mouse Oral LD 50 5000mg/kg

Rat Subcutaneous LD 50 449mg/kg

Mouse Subcutaneous LD 50 >5000mg/kg

Rat Intraperitoneal LD 50 150mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

### Irritation / Sensitization: (Study Type, Species, Severity)

# Hydrocortisone Sodium Succinate

Eye Irritation Rabbit Minimal

### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

### **Hydrocortisone Sodium Succinate**

7 Day(s) Mouse Oral 140 mg/kg/day LOAEL Thymus 4 Day(s) Mouse Subcutaneous 100 mg/kg/day LOAEL

4 Day(s) Mouse Subcutaneous 100 mg/kg/day LOAEL Liver 11 Day(s) Mouse Subcutaneous 62 mg/kg/day LOAEL Endocri

11 Day(s) Mouse Subcutaneous 62 mg/kg/day LOAEL Endocrine system 2 Week(s) Mouse Subcutaneous 560 mg/kg/day LOAEL Liver, Bone Marrow

85 Day(s) Rat Subcutaneous 175 mg/kg/day LOAEL Adrenal gland

100 MG PLAIN

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11. TOXICOLOGICAL INFORMATION

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

**Hydrocortisone Sodium Succinate** 

Reproductive & Fertility-Females Rat Oral 210 mg/kg/day LOAEL Maternal toxicity Embryo / Fetal Development Mouse Oral 10 mg/kg/day LOAEL Developmental toxicity

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

**Hydrocortisone Sodium Succinate** 

Bacterial Mutagenicity (Ames) Salmonella Negative In Vivo In Vitro Direct DNA Damage Rat , Mouse Positive In Vivo In Vitro Chromosome Aberration Rat , Mouse Positive

Cytogenetics Mouse Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

# 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties of the formulation have not been thoroughly investigated. Releases

to the environment should be avoided.

**Toxicity:** No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

# 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

# 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

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# 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications
WHMIS hazard class:
Class D, Division 2, Subdivision A



**Hydrocortisone Sodium Succinate** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Present

204-725-5

Sodium phosphate, monobasic

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

231-449-2

Sodium phosphate, dibasic

CERCLA/SARA 313 Emission reporting

CERCLA/SARA Hazardous Substances

and their Reportable Quantities:

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Present

2270 kg

Not Listed

Present

231-448-7

# 16. OTHER INFORMATION

### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child

Toxic to Reproduction: Category 3

R63 - Possible risk of harm to the unborn child.

**Data Sources:** Pfizer proprietary drug development information. Publicly available toxicity information. Safety

data sheets for individual ingredients.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

100 MG PLAIN

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Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

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**End of Safety Data Sheet** 

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