SAFETY DATA SHEETS

This SDS packet was issued with item: 078940489

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078946074



US - OSHA SAFETY DATA SHEET

Revision Date 29-Nov-2016

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier Product Name CAS No.	Prednisolone acetate 52-21-1	
Other means of identification		
Synonyms	RU357, Detahydrocortisone acetate, Prednisolone 21-acetate, Active ingredient of HYDROCORTANCYL	
Other Information	Substance pharmacologically active.Anti-inflammatory glucocorticoid.	
Recommended use of the chemical	and restrictions on use	
Recommended Use	Active ingredient for medical use. Active ingredient for veterinary use.	
Uses advised against	Not available.	
Details of the supplier of the safety	data sheet	
Supplier Address Sanofi-Aventis U.S. LLC, A SANOFI COMPANY, 55 Corporate Drive, Bridgewater, NJ 08807		
Emergency telephone number		
Company Phone Number	US Customer Service: (800) 207-8049	
24 Hour Emergency Phone Number	Chemtrec (US): 1-800-424-9300 Chemtrec (Outside US): +1 (703) 527-3887 Sanofi-Aventis US: 908-981-5550	
2 HAZARDS IDENTIFICATION		

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Classified.

Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

Physical hazards

Not classified.

OSHA Regulatory Status

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard/Globally Harmonized System of Classification and Labelling of Chemicals (GHS); (29 CFR 1910.1200; Revision 3).

Label elements

Emergency Overview



Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye protection. Do not breathe dust.

Precautionary Statements - Response

If exposed or concerned or if you feel unwell: Get medical attention.

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with applicable regional, national and local laws and regulations.

Hazards not otherwise classified (HNOC)

Combustible dust.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

C₂₃H₃₀O₆

Chemical Name	CAS No.	Weight-%
Prednisolone acetate	52-21-1	100

4. FIRST AID MEASURES

First aid measures

General advice	Take the victim out of the contaminated area. Remove contaminated clothing immediately and dispose of safely.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Skin Contact	Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.

Inhalation	Move to fresh air. Make the victim blow his nose. Seek medical advice.	
Ingestion	Do not induce vomiting. Make the victim rinse his mouth with water. Seek medical advice immediately.	
Self-protection of the first aider	Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No acute effects.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media All means. (E.g. water, carbon dioxide, dry chemical extinguisher). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	Strong water jet.	
Specific hazards arising from the chemical		

In case of fire, the product may emit toxic and/or irritating fumes. Thermal decomposition/oxidation hazards may include:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)

Hazardous combustion products Not available.

Explosion data

Sensitivity to Mechanical ImpactNot available.Sensitivity to Static DischargeCombustible dust. (See Section 9).

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Particle full-face respirator or powered-air purifying respirator. Suitable gloves. Dedicated work clothes.	
Environmental precautions		
Environmental precautions	Avoid any spreading of the product.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	

Advice on safe handling

7. HANDLING AND STORAGE

Precautions for safe handling

Industrial Scale: Local ventilation and emission point dust extraction. Enclosed transfer recommended. Take precautionary measures against electrostatic loading. Ground vessels and equipment well. Handle milled or in bulk only after a detailed safety study.

Laboratory Scale: Handling in a hood.

Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep away from chemicals as it is a pharmaceutical substance. Keep in closed container,
away from moisture and light. Keep protected from air. Take precautionary measures
against static discharges. Keep at ambient temperature.

Packaging materials Glass, polyethylene.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Based on a review of animal and clinical literature, an Occupational Exposure Limit (OEL) of 50 μg/m³ is recommended as an 8-hour TWA for Prednisolone acetate.

Appropriate engineering controls

Engineering Controls See Section 7: Precautions for safe handling.

Individual protection measures, such as personal protective equipment

- Eye/face protectionIndustrial Workplace: See respiratory protectionLaboratory: Safety glasses.
- Skin and body protectionIndustrial Workplace: Work clothes. Suitable gloves. Glove material: Nitrile rubber;
Layer thickness: 0.11 mm. Break through time: > 480 min.
Laboratory: Working clothes. Suitable gloves recommended.
- Respiratory protectionIndustrial Workplace: Particle full-face mask or powered-air purifying respirator.
Laboratory: Handling in a hood.
- General Hygiene Considerations Industrial Workplace: Wash hands. Laboratory: Wash hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	Solid Not available White	Odor Odor threshold	Odorless Not available.
<u>Property</u> pH	<u>Values</u> Not available.	<u>Remarks</u>	
Melting point/freezing point	227 °C		

Boiling point / boiling range	Not available.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Flammability Limit in Air	
Upper flammability limit:	Not available.
Lower flammability limit:	Not available.
Vapor pressure	Not data available.
Vapor density	Not available.
Specific Gravity	Not available.
Water solubility	Insoluble in water.
Solubility in other solvents	Soluble in ethanol. Soluble in acetone.
Partition coefficient	log(Pow): 3.81
Auto-ignition temperature	Not available.
Decomposition temperature	240°C Under nitrogen 170°C Under oxygen
Kinematic viscosity	Not available.
Dynamic viscosity	Not available.
Minimum ignition energy	Extremely sensitive to ignition (1 mJ < MIE < 3 mJ)
Oxidizing properties	Not available.
Other Information	
Softening point	Not available.
Molecular weight	Not available.
VOC Content (%)	Not available.
Density	No data available.
Bulk density	approx. 400 kg/m ³

10. STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability No data available.

Possibility of Hazardous Reactions Not available.

Conditions to avoid

Not available.

Incompatible materials

Strong oxidizing agents.

Hazardous Decomposition Products

- Carbon monoxide (CO)
- Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure			
Acute toxicity	Acute dermal toxicity (LD50):	3,500 mg/kg (Mouse)	
Information on toxicological effects	<u>8</u>		
Symptoms	Not available.		
Delayed and immediate effects as v	vell as chronic effects from short and long-te	erm exposure	
Skin corrosion/irritation	No experimental data available. No cases repo	orted at workplace.	
Serious eye damage/eye irritation	No experimental data available. No cases repo	orted at workplace.	
Sensitization	No experimental data available. No cases repo	orted at workplace.	
Germ cell mutagenicity	Not available.		
Carcinogenicity	Not available.		
Reproductive toxicity	In animals, experiments have shown teratoger In humans, retrospective studies haven't show corticoids during the first trimester.		
STOT - single exposure	No data available.		
STOT - repeated exposure	Not available.		
Subchronic toxicity	Not available.		
Target Organ Effects	Not available.		
Neurological effects	Not available.		
Other adverse effects	Bodyweight gain. Acne. Purpura and stretch marks. Excitation and sleep disorders. Metabolic and endocrine disorders.		
Aspiration hazard	Not available.		

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulation

Unlikely to be bioaccumulative in living organisms (Log Pow<4).

Mobility

Not available.

Other adverse effects

No ecological data available.

13. DISPOSAL CONSIDERATIONS		
Waste treatment methods		
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
Contaminated packaging	Do not reuse container.	
US EPA Waste Number	Not available.	
14. TRANSPORT INFORMATION		
DOT	Not classified as dangerous in the meaning of transport regulations.	
IATA	Not classified as dangerous in the meaning of transport regulations.	
IMDG	Not classified as dangerous in the meaning of transport regulations.	
ADR	Not classified as dangerous in the meaning of transport regulations.	

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

16. OTHER INFORMATION

Issue Date Revision Date Revision Note 19-Apr-2013 29-Nov-2016 Formatted to the new 2012 GHS Standard.

Disclaimer

The information contained herein is based upon data considered true and accurate. Sanofi-Aventis U.S. LLC. makes no warranties, express or implied, as to the adequacy of the information contained herein. This information is offered solely for the user's consideration, investigation and verification. Report to the manufacturer any allegations of health effects resulting from handling or accidental contact with this material.

End of Safety Data Sheet