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

Issue Date 19-Apr-2013 Revision Date 29-Nov-2016 Version 2

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

Product identifier

Product Name Prednisolone acetate

CAS No. 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

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

Warning

Hazard statements

Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

May form combustible dust concentrations in the air.



Appearance Not available Physical state Solid Odor Odorless

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 $C_{23}H_{30}O_6$

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 aiderDo 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

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 Impact Not available.

Sensitivity to Static Discharge Combustible 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.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on 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 Conditions Keep 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 GuidelinesBased 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 protection Industrial Workplace: See respiratory protection

Laboratory: Safety glasses.

Skin and body protection Industrial 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 protection Industrial 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 Solid

AppearanceNot availableOdorOdorlessColorWhiteOdor thresholdNot available.

<u>Property</u> <u>Values</u> <u>Remarks</u>

pH Not available.

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/m³

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

Symptoms Not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo experimental data available. No cases reported at workplace.

Serious eye damage/eye irritation No experimental data available. No cases reported at workplace.

Sensitization No experimental data available. No cases reported at workplace.

Germ cell mutagenicity Not available.

Carcinogenicity Not available.

Reproductive toxicity In animals, experiments have shown teratogenic effects, varying with species.

In humans, retrospective studies haven't shown abnormal effects due to administration of

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

Not classified as dangerous in the meaning of transport regulations.

Not classified as dangerous in the meaning of transport regulations.

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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

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
 19-Apr-2013

 Revision Date
 29-Nov-2016

Revision Note 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
