# spectrum®



# SAFETY DATA SHEET

Preparation Date: 10/29/2019	Revision date 10/29/2019	Revision Number: G1			
1. IDENTIFICATION					
Product identifier					
Product code: Product Name:	FL117 FLUDROCORTISONE ACETATE, MICRONIZ	ZED, USP			
<u>Other means of identification</u> Synonyms:	Alflorone acetate Corticosterone, 9-fluoro-17-hydroxy-, 21-acet 9-alpha-Fluorohydrocortisone acetate 9-alpha-Fluorohydrocortisone-21-acetate 9-Fluoro-11-beta,17,21-trihydroxypregn-4-ene Pregn-4-ene-3,20-dione, 21-(acetyloxy)-9-fluo	e-3,20-dione 21-acetate			
CAS #: RTECS # CI#:	514-36-3 TU5050000 Not available				
Recommended use of the che	mical and restrictions on use				
Recommended use: Uses advised against	No information available. No information available				
<u>Supplier:</u>	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000				
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)				

# 2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

#### Label elements

#### Warning

Hazard statements Harmful if swallowed Causes skin irritation Causes eye irritation Suspected of damaging fertility or the unborn child May cause respiratory irritation



Hazards not otherwise classified (HNOC) Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust Use only outdoors or in a well-ventilated area

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell Rinse mouth

# Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Fludrocortisone Acetate	514-36-3	100

#### 4. FIRST AID MEASURES

#### First aid measures

Product code: FL117

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms	Irritating to eyes and skin May cause respiratory irritation Nausea Vomiting Headache Tremors Drowsiness Fatigue Weakness Confusion
	Lightheadedness

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically.

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# **5. FIRE-FIGHTING MEASURES**

Extinguishing Media Suitable Extinguishing Media:	Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.			
Unsuitable Extinguishing Media:	No information available.			
Specific hazards arising from the chemical				
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Hydrogen fluoride gas.			
Specific hazards	May be combustible at high temperatures.			
Special Protective Actions for Firefighters				
Specific Methods:	No information available			
Special Protective Equipment 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:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. Remove all sources of ignition.			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.			
Methods and material for containment and cleaning up				
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.			
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.			

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

# Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Sensitive to light. Store in light-resistant containers. Keep tightly closed in a dry, cool and well-ventilated place. Store between 5°C and 25°C. Do not freeze. Store away from incompatible materials.

## Incompatible Materials:

Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

#### National occupational exposure limits

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Fludrocortisone Acetate	514-36-3	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Fludrocortisone Acetate	514-36-3	None	None	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Fludrocortisone Acetate	514-36-3	None	None

#### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

# Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	<b>Color:</b>
Solid	Crystalline powder. Crystals.	White. Pale Yellow.
<b>Odor:</b>	<b>Taste</b>	<b>Formula</b>
No information available.	No information available.	C23H31FO6
Molecular/Formula weight (g/mole):	Flammability (solid, gas)	Flashpoint (°C/°F):
422.50	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
<b>Upper Explosion Limit (%):</b>	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):
No information available	233-234°C/451.4-453.2°F	No information available
<b>Boiling point/range(°C/°F):</b>	<b>Bulk density:</b>	<b>Density (g/cm3):</b>
No information available	No information available	No information available
<b>Specific gravity:</b>	<b>pH</b>	Vapor pressure @ 20°C (kPa):
No information available	No information available	No information available
Evaporation rate:		

Product code: FL117

Product name: FLUDROCORTISONE ACETATE, MICRONIZED, USP

No information available	Vapor density: No information available	<b>VOC content (g/L):</b> No information available	
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available	
<b>Miscibility:</b> No information available	<b>Solubility:</b> Sparingly soluble in chloroform Slightly soluble in Ether		
	10. STABILITY AND REACTIVIT	٣Y	
Reactivity No information available			
Chemical stability			
Stability:	Sensitive to light. Stable under recommended	I storage conditions.	
Possibility of Hazardous Reactions: Hazardous polymerization does not occur			
Conditions to avoid:	Heat. Exposure to light. Ignition sources.	Incompatible materials.	
Incompatible Materials:	Strong oxidizing agents		
Hazardous decomposition products:	Carbon oxides. Hydrogen fluoride.		
<u>Other Information</u> Corrosivity:	No information available		

# Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Principal Routes of Exposure: Skin. Eyes. Ingestion. Inhalation.

# Acute Toxicity

# **Component Information**

Fludrocortisone Aceta	9	
CAS No	514-36-3	
LD50/oral/rat =	> 1 g/kg Oral LD50 Rat	
LD50/oral/mou	e = No information available	
LD50/dermal/ra	bbit = No information available	
LD50/dermal/ra	= No information available	
LC50/inhalatio	<b>/rat =</b> No information available	
LC50/inhalatio	mouse = No information available	
Other LD50 or	C50information = No information available	

# **Product Information**

LD50/oral/rat = Value - Acute Toxicity = >1000 mg/kg

LD50/oral/mouse = Value - Acute Tox = No information available

LD50/dermal/rabbit Value - Acute Toxicity = No information available

LD50/dermal/rat VALUE - Acute Tox = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	Causes skin irritation.	
Eye Contact:	Causes eye irritation.	
Inhalation	May cause respiratory irritation. May cause lightheadedness. May cause confusion. May cause fatigue.	
Ingestion	May cause digestive (gastointestinal) tract irritation. Ingestion may cause nausea, vomiting. May cause weakness. May cause headache.	
Aspiration hazard	No information available.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Chronic Toxicity	No information available.	
Sensitization:	No information available.	

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Fludrocortisone Acetate	514-36-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	Suspected of damaging fertility or the unborn child
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available No information available
Specific Target Organ Toxicity	
STOT - single exposure	respiratory system.

No information available. No information available.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	
Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

#### **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

STOT - repeated exposure

Target Organs:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Fludrocortisone Acetate	514-36-3	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT
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UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available

Special Provisions Symbol(s): Description:

# TDG (Canada)

UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description:

#### ADR

UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk:

#### IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available

No Information available

No information available

No information available

No information available

No information available No information available

No information available

No Information available

No information available

No information available

No information available

No information available

No information available

Not Regulated

Not regulated

#### RID

UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available

# ICAO (air)

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available

# IATA

UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response	
Special Provisions	No information available

# **15. REGULATORY INFORMATION**

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	China IECSC	Australia	EINECS-No.

				(PICCS)			(AICS)	
Fludrocortisone Acetate	514-36-3	Not Listed	Not present	Not present	Not present	Not listed	Present	Present 208-180-4

# **U.S. Regulations**

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Fludrocortisone Acetate	514-36-3	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Fludrocortisone	514-36-3	None	None	None	None	None
Acetate						

# U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Fludrocortisone Acetate	514-36-3	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification The WHMIS 2015 classification of this product has not been validated or reviewed yet. Information:

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Fludrocortisone Acetate	514-36-3	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Fludrocortisone Acetate	514-36-3	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Fludrocortisone Acetate	514-36-3	Not listed

# **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Fludrocortisone Acetate	514-36-3	

EU - CLP (1272/2008)

#### R-phrase(s)

R22 - Harmful if swallowed R36 - Irritating to eyes R38 - Irritating to skin R60 - May impair fertility R61 - May cause harm to the unborn child

# S -phrase(s)

S 7 - Keep container tightly closed.

S36 - Wear suitable protective clothing

S38 - In case of insufficient ventilation, wear suitable respiratory equipment

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Fludrocortisone Acetate	514-36-3		No information	

# The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

Xi - Irritant





# **16. OTHER INFORMATION**

Preparation Date: Revision date Prepared by:	10/29/2019 10/29/2019 Sonia Owen	
Disclaimer:	All chemicals may pose unknown hazards and should be a Safety Data Sheet (SDS) applies only to the material as pa is combined with other materials, deteriorates, or becomes pose hazards not mentioned in this SDS. The physical pro SDS are obtained from the literature and do not constitute Information contained herein does not constitute a warrant implied, as to the safety, merchantability or fitness of the g purpose. Spectrum Chemicals & Laboratory Products, Inc. responsibility for results obtained or for incidental or conse	ackaged. If this product s contaminated, it may operties reported in this product specifications. ty, whether expressed or goods for a particular . assumes no
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End of Safety Data Sheet