

SSD CREAM- silver sulfadiazine cream
Dr Reddys Laboratories Inc

SSD™ (1% Silver Sulfadiazine Cream)
SSD AF™ (1% Silver Sulfadiazine Cream)

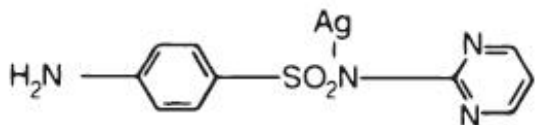
DESCRIPTION

SSD™ (1% Silver Sulfadiazine Cream) and SSD AF™ (1% Silver Sulfadiazine Cream), 1% are topical antibacterial preparations which have as their active antimicrobial ingredient silver sulfadiazine. The active moiety is contained within an opaque, white, water miscible cream base.

Each 1000 grams of SSD/SSD AF Cream contains 10 grams of silver sulfadiazine.

Inactive Ingredients: cetyl alcohol (SSD Cream only), isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methyl paraben, as a preservative.

Silver sulfadiazine has an empirical formula of $C_{10}H_9AgN_4O_2S$, molecular weight of 357.14 and structural formula as shown:



CLINICAL PHARMACOLOGY

Silver sulfadiazine has broad antimicrobial activity. It is bactericidal for many gram-negative and gram-positive bacteria as well as being effective against yeast. Results from *in vitro* testing are listed below. Sufficient data have been obtained to demonstrate that silver sulfadiazine will inhibit bacteria that are resistant to other antimicrobial agents and that the compound is superior to sulfadiazine. Studies utilizing radioactive micronized silver sulfadiazine, electron microscopy, and biochemical techniques have revealed that the mechanism of action of silver sulfadiazine on bacteria differs from silver nitrate and sodium sulfadiazine. Silver sulfadiazine acts only on the cell wall to produce its bactericidal effect.

Results of *In Vitro* Testing With Silver Sulfadiazine Cream, 1% Concentration of Silver Sulfadiazine
Number of Sensitive Strains / Total Number of Strains Tested

Genus and Species	50 micrograms/mL	100 micrograms/mL
Pseudomonas Aeruginosa	130/130	130/130
Xanthomonas (Pseudomonas)		
Maltophilia	7/7	7/7
Enterobacter Species	48/50	50/50
Enterobacter cloacae	24/24	24/24
Klebsiella Species	53/54	54/54

Escherichia Coli	63/63	63/63
Serratia Species	27/28	28/28
Proteus Mirabilis	53/53	53/53
Morganella Morganii	10/10	10/10
Providencia Rettgeri	2/2	2/2
Proteus Vulgaris	2/2	2/2
Providencia Species	1/1	1/1
Citrobacter Species	10/10	10/10
Acinetobacter Calcoaceticus	10/11	11/11
Stahylococcus Aureus	100/101	101/101
Staphylococcus Epidermidis	51/51	51/51
B-Hemolytic Streptococcus	4/4	4/4
Enterococcus Species	52/53	53/53
Corynebacterium Diphtheriae	2/2	2/2
Clostridium Perfringens	0/2	2/2
Clostridium Perfringens	0/2	2/2
Candida Albicans	43/50	50/50

Silver sulfadiazine is not a carbonic anhydrase inhibitor and may be useful in situations where such agents are contraindicated.

INDICATIONS AND USAGE

Silver Sulfadiazine Cream is a topical antimicrobial drug indicated as an adjunct for the prevention and treatment of wound sepsis in patients with second and third degree burns.

CONTRAINDICATIONS

Silver Sulfadiazine Cream is contraindicated in patients who are hypersensitive to silver sulfadiazine or any of the other ingredients in the preparation.

Because sulfonamide therapy is known to increase the possibility of kernicterus, Silver Sulfadiazine Cream should not be used on pregnant women approaching or at term, on premature infants, or on newborn infants during the first 2 months of life.

WARNING

There is a potential cross-sensitivity between silver sulfadiazine and other sulfonamides. If allergic reactions attributable to treatment with silver sulfadiazine occur, continuation of therapy must be weighed against the potential hazards of the particular allergic reaction.

Fungal proliferation in and below the eschar may occur. However, the incidence of clinically reported fungal superinfection is low.

The use of Silver Sulfadiazine Cream in some cases of glucose-6-phosphate dehydrogenase-deficient

individuals may be hazardous, as hemolysis may occur.

PRECAUTION

If hepatic and renal functions become impaired and elimination of the drug decreases accumulation may occur and discontinuation of Silver Sulfadiazine Cream should be weighed against the therapeutic benefit being achieved.

In considering the use of topical proteolytic enzymes in conjunction with Silver Sulfadiazine Cream, the possibility should be noted that silver may inactivate such enzymes.

Laboratory Tests: In the treatment of burn wounds involving extensive areas of the body, the serum sulfa concentrations may approach adult therapeutic levels (8 to 12mg %). Therefore, in these patients it would be advisable to monitor serum sulfa concentrations. Renal function should be carefully monitored and the urine should be checked for sulfa crystals.

Absorption of the propylene glycol vehicle has been reported to affect serum osmolality, which may affect the interpretation of laboratory tests.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Long-term dermal toxicity studies of 24 months duration in rats and 18 months in mice with concentrations of silver sulfadiazine three to ten times the concentration in Silver Sulfadiazine Cream revealed no evidence of carcinogenicity.

Pregnancy: Pregnancy Category B. A reproductive study has been performed in rabbits at doses up to three to ten times the concentration of silver sulfadiazine in Silver Sulfadiazine Cream and has revealed no evidence of harm to the fetus due to silver sulfadiazine. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly justified, especially in pregnant women approaching or at term. (See **CONTRAINDICATIONS**)

Nursing Mother: It is not known whether Silver Sulfadiazine Cream is excreted in human milk. However, sulfonamides are known to be excreted in human milk and all sulfonamides derivatives are known to increase the possibility of kernicterus. Because of the potential for serious adverse reactions in nursing infants from sulfonamides, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Use: Safety and effectiveness in children have not been established. (See **CONTRAINDICATIONS**)

ADVERSE REACTIONS

Several cases of transient leucopenia have been reported in patients receiving silver sulfadiazine therapy. Leucopenia associated with silver sulfadiazine administration is primarily characterized by decreased neutrophil count. Maximal white blood cell depression occurs within two to four days of initiation of therapy. Rebound to normal leukocyte levels follows onset within two to three days. Recovery is not influenced by continuation of silver sulfadiazine therapy. The incidence of leucopenia in various reports averages about 20%. A higher incidence has been seen in patients treated concurrently with cimetidine.

Other infrequently occurring events include skin necrosis, erythema multiforme, skin discoloration, burning sensation, rashes, and interstitial nephritis. Reduction in bacterial growth after application of topical antibacterial agents has been reported to permit spontaneous healing of deep partial thickness burns by preventing conversion of the partial thickness to full thickness by sepsis. However, reduction

in bacterial colonization has caused delayed separation, in some cases necessitating escharotomy in order to prevent contracture.

Absorption of silver sulfadiazine varies depending upon the percent of body surface area and the extent of the tissue damage. Although few have been reported, it is possible that any adverse reaction associated with sulfonamides may occur. Some of the reactions which have been associated with sulfonamides are as follows: blood dyscrasias, agranulocytosis, aplastic anemia, thrombocytopenia, leucopenia, hemolytic anemia, dermatologic reactions, allergic reactions, Stevens-Johnson syndrome, exfoliative dermatitis, gastrointestinal reactions, hepatitis, hepatocellular necrosis, CNS reactions, and toxic nephrosis.

DOSAGE AND ADMINISTRATION: FOR TOPICAL USE ONLY - NOT FOR OPHTHALMIC USE:

Prompt institution of appropriate regimens for care of the burned patient is of prime importance and includes the control of shock and pain. The burn wounds are then cleansed and debrided; Silver Sulfadiazine Cream is then applied under sterile conditions. The burn areas should be covered with Silver Sulfadiazine Cream at all times. The cream should be applied once to twice daily to a thickness of approximately one sixteenth of an inch. Whenever necessary, the cream should be reapplied to any areas from which it has been removed due to patient activity. Administration may be accomplished in minimal time because dressings are not required. However, if individual patient requirements make dressings necessary, they may be used. Reapply immediately after hydrotherapy. Treatment with Silver Sulfadiazine Cream should be continued until satisfactory healing has occurred or until the burn site is ready for grafting. The drug should not be withdrawn from the therapeutic regimen while there remains the possibility of infection except if a significant adverse reaction occurs.

HOW SUPPLIED

SSD™ (1% Silver Sulfadiazine) **Cream**: white to off-white cream.

50 gram jar	NDC 43598-210-55
400 gram jar	NDC 43598-210-40
25 gram tube	NDC 43598-210-25
50 gram tube	NDC 43598-210-50
85 gram tube	NDC 43598-210-85

SSD AF™ (1% Silver Sulfadiazine) **Cream**: white to off-white cream.

50 gram jar	NDC 43598-211-55
400 gram jar	NDC 43598-211-40

Store at controlled room temperature 15° - 30°C (59° - 86°F)

SSD is a trademark of Dr. Reddy's Laboratories, Inc.

Manufactured by:
Dr. Reddy's Laboratories Louisiana LLC
Shreveport, LA 71106 USA

Revised, June 2013

Container Label for 25 g Tube

SSD™
NDC 43598-210-25
Dr. Reddy's
25 Grams
1% Silver Sulfadiazine Cream 1%
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE
Rx Only

Silver Sulfadiazine...10mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room 15° - 30°C (59° - 86°F).
SSD is a trademark of Dr. Reddy's Laboratories, Inc.
Manufactured by
Dr. Reddy's Laboratories Louisiana, LLC
Shreveport, LA 71106 USA

NDC 43598-210-25

**FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE**

SSD™ Rx only

1% SILVER SULFADIAZINE CREAM


25 Grams


Silver Sulfadiazine... 10mg/g in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative.
See full prescribing information for dosage and administration.
Store at controlled room temperature 15°-30°C (59°-86°F).



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Manufactured by:
**Dr. Reddy's Laboratories LA LLC
Shreveport, LA 71106 USA**

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Dr.Reddy's 

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Container Label for 50 g Tube

SSD™
NDC 43598-210-50
Dr. Reddy's
50 Grams
1% Silver Sulfadiazine Cream 1%
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE
Rx Only

Silver Sulfadiazine...10mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room 15° - 30°C (59° - 86°F).
SSD is a trademark of Dr. Reddy's Laboratories, Inc.
Manufactured by
Dr. Reddy's Laboratories Louisiana, LLC
Shreveport, LA 71106 USA

NDC 43598-210-50

**FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE**

SSD™ Rx only

1% SILVER SULFADIAZINE CREAM

50 Grams

Silver Sulfadiazine... 10mg/g in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room temperature 15°-30°C (59°-86°F).

SSD is a trademark of
Dr. Reddy's Laboratories, Inc.

Manufactured by:
**Dr. Reddy's Laboratories LA LLC
Shreveport, LA 71106 USA**

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Dr.Reddy's

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Container Label for 85 g Tube

SSD™
NDC 43598-210-85
Dr. Reddy's
85 Grams
1% Silver Sulfadiazine Cream 1%
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE
Rx Only

Silver Sulfadiazine...10mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room 15° - 30°C (59° - 86°F).
SSD is a trademark of Dr. Reddy's Laboratories, Inc.
Manufactured by
Dr. Reddy's Laboratories Louisiana LLC
Shreveport, LA 71106 USA

NDC 43598-210-85

FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE

SSD™ Rx only

1% SILVER SULFADIAZINE CREAM


85 Grams


Silver Sulfadiazine... 10mg/g in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative.
See full prescribing information for dosage and administration.
Store at controlled room temperature 15°-30°C (59°-86°F).


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Manufactured by:
Dr. Reddy's Laboratories LA LLC
Shreveport, LA 71106 USA

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Dr.Reddy's 

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Container Label for 50 g Jar

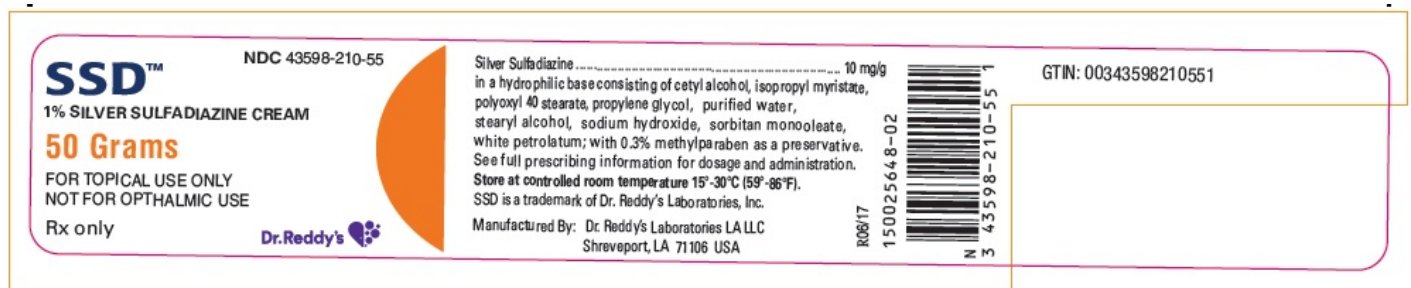
SSD™
NDC 43598-210-55

Dr. Reddy's
85 Grams
1% Silver Sulfadiazine Cream 1%
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE
Rx Only

Silver Sulfadiazine...10mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room 15° - 30°C (59° - 86°F).

SSD is a trademark of Dr. Reddy's Laboratories, Inc.

Manufactured by
Dr. Reddy's Laboratories Louisiana LLC
Shreveport, LA 71106 USA



Container Label for 400 g Jar

SSD™
NDC 43598-210-40
Dr. Reddy's
85 Grams
1% Silver Sulfadiazine Cream 1%
FOR TOPICAL USE ONLY
NOT FOR OPHTHALMIC USE
Rx Only

Silver Sulfadiazine...10mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben, as a preservative. See full prescribing information for dosage and administration.
Store at controlled room 15° - 30°C (59° - 86°F).

SSD is a trademark of Dr. Reddy's Laboratories, Inc.

Manufactured by
Dr. Reddy's Laboratories Louisiana LLC
Shreveport, LA 71106 USA

SSD™

NDC 43598-210-40

1% SILVER SULFADIAZINE CREAM

400 Grams

Rx only

FOR TOPICAL USE ONLY NOT FOR OPHTHALMIC USE

Silver Sulfadiazine 10 mg/g
in a hydrophilic base consisting of cetyl alcohol, isopropyl myristate, polyoxyl 40 stearate, propylene glycol, purified water, stearyl alcohol, sodium hydroxide, sorbitan monooleate, white petrolatum; with 0.3% methylparaben as a preservative.
See full prescribing information for dosage and administration.
Store at controlled room temperature 15°-30°C (59°-86°F).
SSD is a trademark of Dr. Reddy's Laboratories, Inc.

Manufactured By:
Dr. Reddy's Laboratories LA LLC 150025650-02
Shreveport, LA 71106 USA



R06/17



SSD CREAM

silver sulfadiazine cream

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:43598-210
Route of Administration	TOPICAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Silver Sulfadiazine (UNII: W46JY43EJR) (Sulfadiazine - UNII:0N7609K889)	Silver Sulfadiazine	10 g in 1000 g

Inactive Ingredients

Ingredient Name	Strength
WATER (UNII: 059QF0KO0R)	
CETYL ALCOHOL (UNII: 936JST6JCN)	
STEARYL ALCOHOL (UNII: 2KR89I4H1Y)	
PETROLATUM (UNII: 4T6H12BN9U)	
POLYOXYL 40 STEARATE (UNII: 13A4J4NH9I)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
ISOPROPYL MYRISTATE (UNII: 0RE8K4LNJS)	
SORBITAN MONOLEATE (UNII: 06XEA2VD56)	
METHYLPARABEN (UNII: A2I8C7HI9T)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:43598-210-25	25 g in 1 TUBE; Type 0: Not a Combination Product	05/04/2011	
2	NDC:43598-210-50	50 g in 1 TUBE; Type 0: Not a Combination Product	05/04/2011	
3	NDC:43598-210-85	85 g in 1 TUBE; Type 0: Not a Combination Product	05/04/2011	
4	NDC:43598-210-55	50 g in 1 JAR; Type 0: Not a Combination Product	05/04/2011	
5	NDC:43598-210-40	400 g in 1 JAR; Type 0: Not a Combination Product	05/04/2011	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA018578	05/04/2011	

Labeler - Dr Reddys Laboratories Inc (802315887)**Registrant** - Dr. Reddy's Laboratories Inc. DBA Dr. Reddy's Laboratories Louisiana, LLC (830397282)**Establishment**

Name	Address	ID/FEI	Business Operations
Dr. Reddy's Laboratories Inc. DBA Dr. Reddy's Laboratories Louisiana, LLC		830397282	analysis(43598-210) , label(43598-210) , manufacture(43598-210) , pack(43598-210)

Revised: 4/2019

Dr Reddys Laboratories Inc