



Degussa
Corporation

SIPERNAT 50S 25 LB BAG

MSDS # 1756

MATERIAL SAFETY DATA SHEET

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Degussa Corporation
Pigment Group
65 Challenger Road, Ridgefield Park, NJ 07660
Non-Emergency Product Information: 1-201-641-6100
Emergency Only(Chemtrec): 1-800-424-9300

Revised: 7/25/96

Supersedes: 1/25/95

I. PRODUCT INFORMATION

TRADE NAMES/SYNONYMS: Sipernat 22, 22S, 22LS, 50, 50S, 22HR, 283LS

CHEMICAL NAME: Synthetic Amorphous Silicon Dioxide Hydrate

CAS NUMBER: 112926-00-8

CHEMICAL FAMILY: Amorphous Precipitated Silica

CHEMICAL FORMULA: SiO2

This material is in compliance with the Toxic Substances Control Act.

II. SUMMARY OF HAZARDS

May cause discomfort to the eyes, skin and respiratory tract
In case of contact, flush eyes with water and wash skin with
soap and water. If inhaled and breathing becomes difficult,
remove to fresh air. If discomfort persists call a physician

III. HAZARDOUS COMPONENTS

A new CAS number, 112926-00-8, has been assigned to Amorphous
Precipitated Silica to distinguish it from crystalline.
According to EPA this product meets TSCA requirements and is
listed on the TSCA Inventory as Silica, CAS # 7631-86-9.

NOTE: The OSHA PEL for amorphous silica according to
1910.1000 Table Z-3 is 20 mppcf (million particles per cubic
foot of air). The TLV is 10 mg/m3 for Particulates Not
Otherwise Classified.

NAME	CAS NO. #	EXPOSURE LIMITS		
		PEL	TLV	OTHER

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1. Silica-Amorphous, Precip.	112926-00-8	91-95	See Note	10 mg/m3	None
2. Sodium Sulfate	7757-82-6	1-2	None	None	None

No carcinogenicity designated by NTP, IARC, OSHA or others.

IV. CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT:	Not Applicable	VAPOR PRESSURE:	Not Applicable
MELTING POINT:	1700 C	VAPOR DENSITY:	Not Applicable
SOL. IN WATER:	Insoluble	SPECIFIC GRAVITY:	2.1
pH:	5.0 - 8.5	EVAPORATION RATE:	Not Applicable
APPEARANCE/ODOR:	White powder with no odor.		

V. HEALTH HAZARD DATA & FIRST AID PROCEDURES

Amorphous silica, unlike crystalline silica, is considered biologically benign.

CHEMICAL NAME	TOXICITY DATA	
	LD50	LC50
Silica-Amorphous, Precip.	>10000 mg/kg rat-ori	None established
Sodium Sulfate	5989 mg/kg mus oral	Not established

EYE CONTACT: May cause eye discomfort. In case of contact, flush eyes with water. Call a physician if discomfort persists.

SKIN CONTACT: May cause drying of the skin. In case of contact, wash skin with soap and water. Call a physician if drying persists.

SKIN ABSORPTION: Not expected to be absorbed through skin. In case of contact flush skin with soap and water.

INHALATION: May cause physical discomfort to the respiratory tract. If inhaled and discomfort occurs, remove to fresh air. If discomfort persists, call a physician.

INGESTION: Not expected to be toxic by ingestion.

CHRONIC EFFECTS OF OVEREXPOSURE: No chronic (long term) effects are known for humans.

OTHER HEALTH EFFECTS: Medical conditions which may be aggravated by exposure to

this product include: Conjunctivitis of the eye, dermatitis of the skin, asthma and respiratory diseases.

VI. EXPOSURE CONTROL MEASURES

EYE PROTECTION: Eye protection is recommended.

PROTECTIVE GLOVES: General use chemical resistant gloves are recommended to protect the skin from drying and irritation. Lotions and barrier creams are also recommended to prevent drying of the skin.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure limits listed in Section III by using engineering controls. If not feasible, use a NIOSH approved respirator.

OTHER PROTECTION: If repeated or prolonged skin contact or contamination is likely, protective clothing should be worn.

VENTILATION: Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section III. Refer to "Industrial Ventilation" by ACGIH for a manual of recommended practices.

**PERSONAL HYGIENE/
WORK PRACTICES:** Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking.

VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Non-flammable

FLAMMABLE LIMITS LOWER: None UPPER: None

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire conditions.

FIRE FIGHTING INSTRUCTIONS: Evacuate enclosed and surrounding areas. If smoke and fumes cannot be avoided, use proximity suit and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Proper safety measures such as electrical grounding should be taken to prevent a static electrical charge when handling

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near flammable or explosive areas. Refer to NFPA #77-1984.

VIII. REACTIVITY DATA

STABILITY: This product is stable.

INCOMPATIBILITY: None - product is inert.

**HAZARDOUS PRODUCTS
OF DECOMPOSITION:** Can include carbon dioxide and carbon monoxide.

**HAZARDOUS
POLYMERIZATION:** Will not undergo hazardous polymerization.

IX. ENVIRONMENTAL & DISPOSAL INFORMATION

GENERAL: CERCLA/SARA requires notification to the appropriate Federal state and local authorities of releases of hazardous or extremely hazardous quantities equal to or greater than the Reportable Quantities (RQs) in 40 CFR 302.4 and 40 CFR 355.

SARA Title 313 requires submissions of annual reports of releases of toxic chemicals that appear in 40 CFR 372. Components present in this product at a level which could require reporting under the statute are: *None*

**ACTION TO TAKE
FOR SPILLS/LEAKS:** See Section V and VI for hazards and exposure controls. For small spills, sweep or shovel solids into proper container for disposal.

DISPOSAL METHOD: Dispose of in accordance with all local, state and federal regulations. Contact Degussa at (334) 443-4000, ext. 4287 or ext. 4427 for assistance with disposal requirements.

X. PRECAUTIONS FOR SAFE HANDLING, STORAGE AND USE

Store in a dry place to protect product from loss of performance. Avoid prolonged inhalation of dust. Mixture with water on a surface will produce a slippery surface. When working with this product, measures to prevent electrostatic charging should always be taken when handling near flammable or explosive atmospheres.

XI. SHIPPING INFORMATION

Not regulated for Transportation Purposes.

XII. ADDITIONAL INFORMATION

The primary physiological effect of this product is a drying of the skin, which can be eliminated by using the exposure control measures recommended in Section VI and by applying lotions and barrier creams to the skin.

For additional product safety or product use information, contact the Product Manager at the address or phone number listed on page one.

NOTICE

The data contained herein is based on information that Degussa believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such product in combination with any other product and no agent of Degussa is authorized to vary any of such data. Degussa Corporation and its agents disclaim all liability for any actions taken or foregone on reliance upon such data.
