
The MSDS format adheres to U.S. standards and regulatory requirements and may not meet regulatory requirements in other countries.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

SOMOS®201 SOLID IMAGING POWDER

SOMOSEP1

Revised: 4 February 2000 Printed

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

MATERIAL IDENTIFICATION

SOMOS is a registered trademark of DSM.

COMPANY IDENTIFICATION

MANUFACTURER/DISTRIBUTOR

Distributed by DTM Corporation
(See Additional Information Section)
Manufactured by DSM Desotech Inc.
1122 St. Charles St.
Elgin, IL 60120

PHONE NUMBERS

Transport Emergency :
Medical Emergency :

CHEMTREC: 1-800-424-9300 (USA)
1-847-697-0401 (USA)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material CAS Number

Percent

Hazardous
Material
Information
System (USA)

Health	1
Fire Hazard	1
Reactivity	0

PROPRIETARY POLYMER RESIN

Exposure limits may be applicable for the following:
Particulates (Not Otherwise Regulated)
Particulates (Insoluble) Not Otherwise Classified

Components (Remarks)

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the SuperFund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

The specific identity of the components is withheld as a trade secret.

HAZARDS IDENTIFICATION

Potential Health Effects

INHALATION: Polymer granules are not respirable. If finely ground, polymer may be inhaled. Dusts may be irritating to nose, throat and upper respiratory tract. If polymer is overheated, fumes may be irritating to eyes, upper respiratory tract and lungs.

SKIN CONTACT: Molten polymer may produce thermal burns.

EYE CONTACT: If particles contact the eye, mechanical irritation with tearing, pain or blurred vision may result.

INGESTION: Ingestion is not a probable route of exposure in normal use. The polymer has low toxicity.

ADDITIONAL HEALTH EFFECTS

No known chronic effects.

Not known to aggravate any pre-existing medical condition.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment for thermal burn.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >600 F (>316 C)

Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.

Extinguishing Media

Water Spray, Foam, Dry Chemical, and CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Spill Clean Up

Vacuum the dry powder into a closed container with internally and externally explosion-proof vacuum equipment. Transfer to closed containers and hold for proper disposal.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin or clothing. Do not breathe dust. Do not breathe vapors or fumes that may be evolved during processing.

Handling (Physical Aspects)

Keep away from heat, sparks and flames. Can accumulate high static electric charge during handling. Static charges can cause explosions in solvent and dust laden atmospheres. Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation.

Avoid dust accumulation to limit the potential for dust cloud formation, ignition and explosion.

Follow good industrial hygiene practices when dumping bags, mixing or doing other tasks which can create dust.

Storage

Store in a cool, dry place. Keep container closed to prevent contamination.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Good general ventilation should be provided to keep dust concentrations below the exposure limits. Local exhaust should be used when large amounts are released. Use local ventilation to control fumes from hot processing. Use static controls. Static charges can build up and ignite dust or solvent laden atmospheres.

Personal Protective Equipment

EYE/FACE PROTECTION

Wear overall chemical splash goggles when the possibility exists for eye or face contact from airborne material.

RESPIRATORY PROTECTION

Respirators are not needed for normal use.

RESPIRATOR

A NIOSH approved air-purifying respirator with particulate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a NIOSH approved positive pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING

If there is potential for contact with hot/molten material, wear heat resistant impervious clothing and footwear.

Special protective clothing is not needed for normal use. Gloves

are recommended as good industrial practice.

Exposure Guidelines

Applicable Exposure Limits

Particulates (Not Otherwise Regulated)

PEL (OSHA) : Particulates (Not Otherwise Regulated)
15 mg/m³, 8 Hr. TWA, total dust
5 mg/m³, 8 Hr. TWA, respirable dust

Particulates (Insoluble) Not Otherwise Classified

PEL (OSHA) : None Established
TLV (ACGIH) : 10 mg/m³, Inhalable particulate 8 Hr. TWA
3 mg/m³, Respirable particulate 8 Hr. TWA

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Odor : No Distinct Odor.
Form : Powder.
Color : Off-White to Pale Yellow.
Solubility in Water: Insoluble
Melting Point : >300 F (>149 C)
Specific Gravity : >1.000

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Hazardous decomposition products may include acrolein, tetrahydrofuran, aldehydes or other incompletely combusted carbon fragments.

TOXICOLOGICAL INFORMATION

Animal Data

No information is available.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity:
Polymer is insoluble.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Recover for reclamation or recycling.

If material cannot be recycled, its high fuel value makes incineration with energy recovery a desirable disposal option.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Not Regulated.

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : All components are listed on the TSCA inventory.

State Regulations (U.S.)

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet.

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1 % OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): None known.

OTHER INFORMATION

Additional Information

MEDICAL USE: CAUTION: Do not use in medical applications involving permanent implantation in the human body.

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

PREPARED BY: George Pasternack

End of MSDS