

REMET® CORPORATION
210 COMMONS ROAD
UTICA, NEW YORK 13502-6395

****MATERIAL SAFETY DATA SHEET****

PRODUCT NAME (on label): REMASOL® Colloidal Silica
GRADE(S): SP-30, LP-30, LP-40

SECTION I - PRODUCT I.D.

COMMON NAMES: Amorphous Silica, Silicon Dioxide

C.A.S.#: 7631-86-9

MANUFACTURED BY: W.R. Grace
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DATE PREPARED: December 2001

SECTION II - COMPOSITION INFORMATION

INGREDIENTS	C.A.S. #	APPROX. %	OSHA PEL	ACGIH TLV
			8 hr. TWA	8 hr.
			Total Dust	Total
Dust				
Amorphous Silica	7631-86-9	30-40%	80 mg/m ³	10mg/m ³
Titrateable Alkali	1313-59-3	0.32-0.56%	None Established	

SECTION III - NON-HAZARDOUS INGREDIENTS

INGREDIENT	C.A.S. #	APPROX. %
Water	7732-18-5	60-70%

SECTION IV -PROPERTIES

BOILING POINT:(760 mmHg) 212°F/100°C
Liquid component is water.

SPECIFIC GRAVITY: 1.21-1.31

VAPOR PRESSURE: 24 mmHg @ 25°C/77°F
(mmHg) 48 mmHg @ 38°C/100°F

MELTING POINT: 0°C/32°F

VAPOR DENSITY: Vapor is water
(Air=1)

EVAPORATION RATE: <1
(Butyl Acetate=1)

SOLUBILITY IN WATER: 100%

% VOLATILE BY VOLUME: N/A

APPEARANCE: Clear to opalescent liquid

pH: 9.8-10.4

FORM: Liquid

ODOR: Odorless

SECTION V - FIRE/EXPLOSION INFO.

FLASH POINT: Will not burn

METHOD USED: N/A

FLAMMABLE LIMITS: Will not burn

LEL: N/A

UEL: N/A

AUTOIGNITION TEMPERATURE: N/A

AUTODECOMPOSITION TEMPERATURE: N/A

EXTINGUISHING MEDIA: Use media appropriate for surrounding material.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION VI - REACTIVITY INFO.

STABILITY: STABLE

CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (materials to avoid): Incompatible or can react with water reactive materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: No known hazardous decomposition.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: N/A

SECTION VII - HEALTH HAZARD DATA

POTENTIAL HEALTH EFFECTS

HUMAN HEALTH EFFECTS: Overexposure by skin or eye contact may include skin irritation with discomfort or rash; or eye irritation with discomfort, tearing, or blurring of vision. By inhalation, the effects may include temporary lung irritation with cough, discomfort, difficulty breathing and shortness of breath.

See SECTION XII for further Health Information

FIRST AID FOR: EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

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

INHALATION: If large amounts are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, if symptoms occur, consult a physician.

CARCINOGENICITY: 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.

SECTION VIII - HANDLING DATA

HANDLING (Personnel): Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

Avoid breathing aerosols and mists (also dust from dried-down product). Wash contaminated clothing before reuse and before REMASOL[®] dries.

STEPS TO BE TAKEN IN CASE OF RELEASE OR SPILL: Flush with water to a chemical sewer.

WASTE DISPOSAL METHOD: Comply with all Federal, State, and Local regulations.

PRECAUTIONS IN HANDLING & STORAGE: Keep containers tightly closed. Store at temperatures above 35°F (2°C) to avoid irreversible precipitation of silica.

OTHER PRECAUTIONS: None

Note: Review Fire Fighting Measures and Handling (Personnel) Sections before proceeding with cleanup. Use appropriate Personal Protection Equipment during cleanup.

SECTION IX - CONTROL MEASURES

VENTILATION: Use sufficient ventilation to keep employee exposure below recommended limits.

RESPIRATORY PROTECTION: Where there is a potential for inhalation exposure to product dust, mist or aerosols in excess of applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

PROTECTIVE GLOVES: Rubber

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Access to shower and eyewash.

WORK/HYGENIC PRACTICES: Always practice good general industrial hygiene.

SAFETY PRECAUTIONS: Avoid contact with eyes, skin and clothing. Avoid breathing aerosols and mists (also dust from dried-down product).

Wash thoroughly after handling. Wash contaminated clothing before reuse and before REMASOL dries.

EXPOSURE GUIDELINES:

Exposure Limits

REMASOL Colloidal Silica

PEL (OSHA) None Established

TLV (ACGIH) None Established

SECTION X - SHIPPING INFO.

Not regulated as a hazardous material by DOT, IMO or IATA.

DOT UN#: N/A

SHIPPING CONTAINERS: 1 & 5 gallon PE containers, 55 gallon PE lined steel drums, ISO tanks, Tote bins, tank cars and tank trucks.

SECTION XI - ADDITIONAL DATA

U.S. FEDERAL REGULATIONS

TSCA Inventory Status Reported/Included.

NFPA, NPCA - HMIS RATINGS

HEALTH (Acute) 1 (Chronic Health Effects)

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION * * Personal Protection rating to be supplied by user depending on use conditions.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute Yes

Chronic Yes

Fire No

Reactivity No

Pressure Hazard No

Hazardous Chemicals Lists:

SARA Extremely Hazardous Substance No

CERCLA Hazardous Substance No

SARA Toxic Chemicals See Components Section

CANADIAN REGULATIONS

This is not a WHMIS controlled product.

SECTION XII – TOXICOLOGICAL INFORMATION

Animal Data

REMASOL COLLOIDAL SILICA

Oral LD50: >10,000 mg/kg in rats

The compound is a slight skin irritant and a mild eye irritant. Toxic effects described in animals from single inhalation exposures include upper respiratory irritation, lung congestion, bronchitis, and emphysema. Repeated inhalation exposures at concentrations of 50 or 150 mg/m³ produced increased lung weights and lung changes. No progressive pulmonary fibrosis was seen, and the observed lung changes were reversible. No adverse effects were observed in this study at 10 mg/m³. By ingestion, effects from single high doses include weight loss and irritation. Repeated ingestion exposures produced nonspecific effects such as weight loss and diarrhea. Effects observed in animals exposed by intratracheal instillation for one to two years included fibrosis of the lungs.

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 in any process. The information set forth herein is furnished free of charge and is based on technical data that REMET Corporation believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.