



Global Specialty Products

USA, Inc

MATERIAL SAFETY DATA SHEET

Complies with Hazard Communication
29 CFR 1910-1200

Date Prepared: 04/01/03

Supersedes Date: 09/01/01

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Section I - Product Identification

Product Name

Emergency Phone: CHEMTREC 1-800-424-9300

OPTIMA™ - 2001CR Carbon Remover & Degreaser

Section II - Hazardous Ingredients/Identify Information

MATERIAL	CAS #:	THRESHOLD LIMIT VALUE	PERCENTAGE
Oxirane, methyl-polymer with oxirane potassium acetate	9003-11-6	N/A	2 - 4
Water	7732-18-5	N/A	Balance
Butoxypolypropylene oxy Polyethylene oxyethano I	9038-95-3	N/A	2 - 4
C10-16-alkylbenzene sulfonic acid	68584-22-5	N/A	0.70 - 1.2
2,2-Dihydroxy isopropyl ether	25265-71-8	N/A	0.70 - 1.2
Aliphatic Propylene glycol ethers	25498-49-1 34590-94-8	N/A	1.0 - 2.5
Potassium Silicate	1312-76-1 7732-18-5	N/A	0.7- 1.2
Benzene, 1,1' - oxybis-Sec-hexy Derivatives, sulfonated sodium salts	147732-60-3	N/A	4 - 7
Sodium Sulfate	007757-82-6	N/A	0.7—1.5
Ethoxylated Dodecyl Mercaptan	9004-83-5	N/A	0.7 -1.5
Sodium Butoxyethoxy Acetate	67990-17-4	N/A	2-4
Sodium Xylene Sulfonate	1300-72-7	N/A	4 - 7

Contains no hazardous components at 1% or more as listed or defined in 29 CFR 1910, Subpart Z. Contains no components that are reported to be carcinogenic by any reference source including IARC, OSHA, NTP and EPA.

Section III - Physical/Chemical Characteristics

Appearance:	Clear Yellow Liquid
Initial Boiling Point:	>212 - 220 °F (@ 760 mm Hg)
Odor:	Mild
Specific Gravity [@ 68 °F]: (water = 1.0)	1.060 - 1.075
pH (10% solution in water @ 68 °F):	10.90 - 11.20
pH (Full Strength):	11.30 - 11.90
Solubility: (in water)	Completely Miscible
Normal Working Concentrations:	10 - 50%
Viscosity (@ 68 °F):	Water Thin
Recommended Operating Temperature:	72°F - 145 °F

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Section IV - Fire/Explosion Hazard Data

EMERGENCY OVERVIEW

Clear yellow water thin liquid with a mild odor. **HMIS Rating**
Slight to moderate eye irritant. Health 1
Slight skin Irritant. Fire 0
No significant health or environmental effects associated with this material. **Not a fire Hazard.** Reactivity 0
Combustible Liquid.

Section V - Reactivity Data

Stability: Stable
Incompatibility: Strong oxidizing or reducing agents, strong
(materials to avoid) acid.

Hazardous Decomposition or byproducts: None

Conditions to Avoid: Avoid breathing the vapors at heated temperature. Avoid contact to eyes and skin. No special ventilation is required unless mists are generated, then use local exhaust.

Section VI - Health/Hazard Data

Protection:

Generally/Applicable Control Measures And Procedures:

Keep container tightly closed.

Do Not Mix With Strong Oxidants And Acids.

No special ventilation is required unless mists are generated, then use local exhaust.

Health Hazards: (Acute and Chronic):

OPTIMA™ - 2001CR Carbon Remover & Degreaser is a slight skin irritant and slight to moderate eye irritant. However, **this does not mean the products are a skin sensitizer.** Effects will be minimized via washing with water.

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Section VI - Health/Hazard Data (continued)

Health Hazards: (Acute and Chronic - Continued):

INHALATION: Slight to moderate hazard for usual Industrial handling. Prolonged inhaling of mist may irritate upper respiratory tract (according to raw material suppliers).

INGESTION: Would not be considered toxic. Ingestion of small amounts (tablespoonfuls) are not likely to cause abdominal discomfort or injury. Ingestion of larger amounts may cause abdominal discomfort or injury.

SKIN CONTACT: May cause varying severalties of irritation from repeated, prolonged, or occluded contact.

CARCINOGENS: None of the components in this product are listed by IARC, OSHA, NTP, EPA or ACGIH as a carcinogen.

Emergency and First Aid:

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

SKIN CONTACT: Wear natural latex or natural rubber gloves to protect your skin. After excessive exposure to skin, rinse immediately with water. Wash contaminated clothing before reuse. **EYE CONTACT:** This product is completely water-based and non-corrosive. In case of eye contact, immediately flush eyes with plenty of water until the irritation stops. Call a physician if the irritation persists. **INGESTION:** If swallowed, do not induce vomiting. Immediately give two glasses of water, or activated charcoal slurry. Never give anything by mouth to an unconscious person. Call a physician.

NOTE TO PHYSICIANS: To prepare activated charcoal slurry suspend 50 g activated charcoal in 400 ml water in plastic bottle and shake well. Administer 5 ml/kg, or 350 ml for an average adult.

Personal Protective Equipment:

Respirators - None under normal use conditions (operating temperature range of 68 - 160 °F). Where airborne concentrations are expected to exceed exposure limits, a NIOSH/MSHA approved air purifying respirator with a organic vapor cartridge or canister may be permissible. Under certain circumstances, protection provided by air purifying respirators is limited. Use a 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.

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Section VI - Health/Hazard Data (continued)

Personal Protective Equipment (continued):

Protective Gloves - Impervious gloves recommended for prolonged contact with solution during product use or for cleaning up spills.

Eye/Face Protection - Wear coverall chemical splash goggles when the possibility exists for eye contact due to splashing or spraying of material.

Protective Clothing or Equipment - Normal or full cover clothing is sufficient. Impermeable apron to protect clothes where splashing of solution at high pressure (65 Psi or higher) cannot be avoided.

Protective Work/Hygienic Practices - No special requirements with respect to chemical exposure other than those noted above. Specific requirements with respect to equipment and specific applications are the responsibility of the user.

Steps To Take If Material Is Released/Spilled/Leaks:

NOTE: Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Will create extremely slippery conditions if spilled. Close off area of spill to traffic. Exercise proper cautions during clean-up. Be sure cleaned areas are dry or slip-free before reopening to traffic. Large spills should be contained and treated to neutral pH, and disposed of in suitable waste containers. Flush small quantities to sewer or waste water system, or pick up with absorbent material for disposal (see Section VII). Flush to sewer only as local regulation permit. Prevent eye and skin contact by wearing appropriate personal protective equipment (See Section VI).

Section VII - Disposal Considerations

WASTE DISPOSAL:

Dispose of with liquid waste according to Federal, State/Provincial and local laws and regulations. Dispose of spilled or waste product and other large amounts in compliance with all Federal, State/Provincial and local laws and regulations. Depending on size, rinse containers and either discard in trash, recycle, or dispose of in licensed facility in accordance with existing local regulations and programs. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. GSP HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION.

STORAGE CONDITIONS:

Store in original container. Keep containers tightly closed. Store away from incompatible substances (acids). Prevent skin and eye contact during handling by wearing appropriate protective equipment (See Section VI).

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Section VIII - Control Measures

Respiratory Protection: (type)	See Section VI.
Ventilation: Local Exhaust:	No special ventilation is required unless mists are generated, then use local exhaust.
Protective Gloves:	Chemical resistant gloves such as natural latex or natural rubber.
Eye Protection:	Chemical safety goggles.
Other Protective Clothing Equipment:	See Section VI. Chemical resistant apron, where splashing of solution at high temperature or pressure cannot be avoided.

Section IX - Regulatory Information

(Not meant to be all-inclusive - selected regulations represented)

TSCA: The components of this product are reported in the EPA, TSCA Inventory List

SARA TITLE III:

Section 302, Extremely Hazardous Substances:	None
Section 311/312, Hazardous Categories:	None
Section 313, Toxic Chemicals:	None

Contains no hazardous components at 1% or more as listed or defined in 29 CFR 1910, Subpart Z. Contains no components that are reported to be carcinogenic by any reference source including IARC, OSHA, NTP and EPA.

Section X - Transportation Data

Proper Shipping Name:	OPTIMA™ - 2001CR Carbon Remover & Degreaser
DOT Identification Number:	Not Available
DOT Hazard Class:	None Hazardous
Hazardous Ingredient(s):	See Section II

NOTICE: This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's