



**Anaerobic
Bioremediation Product**

EC- SAFETY DATA SHEET according to EC directive 2001/58/E
MATERIAL SAFETY DATA SHEET

MSDS # CP-1001

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CAP18 [®] Anaerobic Bioremediation Product	
SYNONYMS AND ALTERNATE TRADE NAMES: None.	
USE OF SUNSTANCE: Groundwater remediation.	
COMPANY NAME (US): CARUS CORPORATION	COMPANY ADDRESS: 315 Fifth Street Peru, IL 61354, USA INFORMATION: (815) 223-1500 (815) 224-6816 (FAX) www.caruscorporation.com (Web) salesmkt@caruscorporation.com (Email) EMERGENCY TELEPHONE: (800) 435 -6856 (USA) (815) 223-1500 (Other countries) (800) 424-9300 (Chemtrec, USA) (703) 527-3887 (Chemtrec, Other countries)
COMPANY NAME (Europe): CARUS NALON S.L.	COMPANY ADDRESS: Barrio Nalon, s/n 33100 Trubia-Oviedo Espana, Spain INFORMATION: (34) 985-785-513 EMERGENCY TELEPHONE: (34) 985-785-513

SECTION 2 HAZARDS IDENTIFICATION

Hazardous Materials Identification System (HMIS) Ratings: Health: 1 - Slight Flammability: 1 - Slight Reactivity: 1 - Slight Personnel Protective Equipment: C : goggles, , apron, and proper gloves.
ACUTE HEALTH EFFECTS All components are Generally Recognized As Safe under USDA guidelines.
EYES: This product may cause slight eye irritation. SKIN CONTACT: This product may cause slight skin irritation. INHALATION: High vapor or aerosol concentrations may be irritating to nose, throat, and upper respiratory tract. INGESTION: Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.



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CHRONIC HEALTH EFFECTS

This material does not contain any chemical listed as a carcinogen or potential carcinogen by OSHA.

SECTION 3. HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	EC NUMBER	PERCENT
Mixed triacylglycerides, soybean oil	8001-22-7	232-274-4	100%
HAZARD SYMBOLS: None			
RISK PHRASES: None			
SAFETY PHRASES: None			

SECTION 4 FIRST AID MEASURES

Eyes:

Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface.

Skin:

Immediately wash contaminated areas with water. Remove contaminated clothing and footwear. Wash clothing and decontaminate footwear before reuse.

Inhalation:

Remove person from contaminated area to fresh air.

Ingestion:

Never give anything by mouth to an unconscious or convulsing person. If person is conscious, give large quantities of water or milk. Seek medical attention immediately.



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SECTION 5. FIRE FIGHTING MEASURES

NFPA * HAZARD SIGNS

Health Hazard	1	=	Materials which under fire conditions would give off irritating combustion products. (less than 1 hour exposure) Materials that on the skin could cause irritation.
Flammability Hazard	1	=	Flash point at or above 200 F (93.4 C). Must be preheated for ignition to occur. Will burn in air when exposed at 1500 F (815.5 C) for 5 minutes.
Reactivity Hazard	1	=	Normally stable material, which can become unstable at high temperature and pressure.
Special Hazard			None

***National Fire Protection Association 704 (USA)**

FLAMMABILITY CLASSIFICATION: Combustible liquid – Class IIIB.

FLASH POINT: Greater than 540°F (PMCC method).

EXTINGUISHING MEDIA: Dry chemical, water fog, carbon dioxide, foam, or Type K fire extinguishers.

FIRE / EXPLOSION HAZARDS: Rags or waste paper soaked with this material may heat and burn spontaneously. Not an explosion hazard.

FIGHTING PROCEDURES: Use of self-contained breathing apparatus is recommended. Apply water fog or mist gently. Avoid heavy application of water as it may cause oil to foam or may spread fire by dispersing oil. Avoid contact with hot oil.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Ensure adequate ventilation. Avoid inhalation and contact with eyes and skin. Personnel should wear protective clothing suitable for the task. Remove all ignition sources and incompatible materials before attempting clean up.

ENVIRONMENTAL PRECAUTIONS:

Do not flush into sanitary sewer system or surface water. If accidental release into the environment occurs, inform the responsible authorities. Keep the product away from drains, sewers, surface and ground water and soil.



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STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Surfaces will be slippery after spillage. Spilled material can be absorbed with earth, sand, vermiculite, cat litter, or other absorbent. Clean area with detergent and water. Large spills can be diked and squeegeed or pumped into a container. All disposals should be in accordance with local, state, and federal agency procedures.

SECTION 7 HANDLING AND STORAGE

WORK/HYGIENIC PRACTICES

Wash hands thoroughly with soap and water after handling the product. Wear proper protective equipment. Remove clothing, if it becomes contaminated.

VENTILATION REQUIREMENTS

Provide sufficient mechanical and/or local exhaust.

CONDITIONS FOR SAFE STORAGE

Store in accordance with NFPA 30 requirements for Class IIIB combustible liquids. Protect containers from physical damage. Store in a cool, dry area in closed containers. Keep away from heat and flames. Do not store near strong acids or oxidizing agents.

Do not keep soiled rags or other absorbent type materials under high temperature and closed conditions in the presence of oxygen.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMITS: As an oil mist - 15 mg/m³ and 5 mg/m³ respirable (OSHA).

ENGINEERING CONTROLS: Provide mechanical local and/or general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

EYES: Use safety glasses or goggles.

RESPIRATORY: Not normally needed. If mists are present use a NIOSH-approved respirator for organic vapors.

SKIN PROTECTION: Wear rubber or neoprene gloves and footwear, and otherwise normal work clothing.



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SECTION 9. CHEMICAL AND PHYSICAL PROPERTIES

Hazardous Decomposition Products:	None
Incompatibility (Keep Away From):	Strong oxidizing agents
Toxic and Hazardous Ingredients:	None
Form: Liquid	Odor: Bland
Appearance: Yellow Liquid	Color: Light Yellow
Specific Gravity (water = 1):	Less than 1 at 15°C
Boiling Point: Not available	Melting Point: 58°F
Solubility in water (by weight %)	Not soluble
Volatile (by weight %)	0 at 25°C
Evaporation Rate:	Not applicable
Vapor Density (mm Hg at 20°C)	Not applicable
Vapor Density (air = 1)	Not applicable
pH (as-is):	Not applicable
Stability:	Product is stable under normal conditions
Viscosity SUS at 100°F:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions. Soaked rags or paper may spontaneously combust (see Section 5).
CONDITIONS TO AVOID: Heat and exposure to strong acids or oxidizers. High surface area exposures (such as soaked rags or paper) exposed to oxygen can result in polymerization and heat production.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Methanol may be formed by hydrolysis or saponification.
INCOMPATIBLE MATERIALS: Strong acids and oxidizers.

SECTION 11 TOXICOLOGICAL INFORMATION

No component is a known or suspected carcinogen or mutagen. The following data are available for individual components:
EYE EFFECTS: Minimally irritating.
SKIN EFFECTS: Non-irritating.
DERMAL LD₅₀: Minimum of >2000 mg/kg (rabbit).
ORAL LD₅₀: Minimum of >5000 mg/kg (rat).



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SECTION 12 ECOLOGICAL INFORMATION

ENTRY TO THE ENVIRONMENT

This product has a low estimated lifetime in the environment, being readily biodegradable.

BIOCONCENTRATION POTENTIAL

This product has a very low bioaccumulative potential.

AQUATIC TOXICITY

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal:

Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to phosphates. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14 TRANSPORT INFORMATION

Not regulated by US DOT, Canada TDG, UN, IMDG, IATA regulations

SECTION 15 REGULATORY INFORMATION

US Federal Regulations

TSCA:

All components in this product are listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals in this product are on the Health & Safety Reporting List.

Chemical Test Rules:

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:

None of the chemicals in this product are listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this product have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs:



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None of the chemicals in this product have an RQ.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

SARA Codes:

Non Applicable

Section 313:

None of chemicals in this product are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 or Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

FIFRA:

CAS# 8001-22-7 is found on the on the list of FIFRA Active Ingredients Of Registered Pesticides

State:

CAS# 8001-22-7 is found on the on state lists from PA.

California Prop 65:

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives:

HAZARD SYMBOLS: None

RISK PHRASES: None

SAFETY PHRASES: None

WGK (Water Danger/Protection): [VwVwS](#): legally effective classification in annex 1 or 2 of the VwVwS (Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes)

Canada - DSL/NDSL:

Listed in [DSL](#)

Canada – WHMIS:

None of the components in this product could be classified as hazardous in accordance with the hazard criteria of the Controlled Products Regulations of Canada.

Canadian Ingredient Disclosure List:

None of the components in this product are listed on the Canadian Ingredient Disclosure List.



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SECTION 16 OTHER INFORMATION

NIOSH:	National Institute for Occupational Safety and Health
MSHA:	Mine Safety and Health Administration
OSHA:	Occupational Safety and Health Administration
NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer
PEL:	Permissible Exposure Limit
DSL/NDSL:	The Domestic Substances and the Non-Domestic Substances List (Canada)
TLV-TWA:	Threshold Limit Value-Time Weighted Average
CAS:	Chemical Abstract Service
EINECS:	Inventory of Existing Chemical Substances (European) (EC. No.)


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CARUS CORPORATION, 315 FIFTH STREET, PERU, IL



Chithambarathanu Pillai

May 2008

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