



## SAFETY DATA SHEET

Product Name: **ClarUS CSM Optimus 2.0 Microcrystalline Wax**

Supplier: Clarus Specialty Products, LLC  
 140 E. Main Street, Suite 310 Rock Hill, SC 29730  
 803-366-2440 Phone  
 803-366-2520 Fax

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### SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**TRADE NAME** CSM Optimus 2.0

*Synonyms* PETROLEUM HYDROCARBON WAXES

Various uses: Personal care/cosmetics, food contact coatings, additive for wax blends, adhesives, candles.

**NFPA 704M©**

**Rating**

Health: 0      Fire: 1      Reactivity: 0      Special:  
 { 0= Insignificant 1= Slight 2= Moderate 3= High 4= Extreme }

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### SECTION 02 Hazard(s) Identification

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**Physical Hazards** NOT CLASSIFIED.  
**Health Hazards** NOT CLASSIFIED  
**OSHA Defined Hazards** NOT CLASSIFIED

THIS PRODUCT DOES NOT MEET THE CRITERIA FOR CLASSIFICATION ACCORDING TO OSHA HAZARD COMMUNICATION STANDARD (OSHA GHS).

#### LABEL ELEMENTS

**Hazard Symbol** NONE

**Signal Word** NONE

**Hazard Statement** THE PRODUCT DOES NOT MEET THE CRITERIA FOR CLASSIFICATION.

**Precautionary Statement**

**Prevention** OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES.

**Response** WASH HANDS AFTER HANDLING.

**Storage** STORE AWAY FROM INCOMPATIBLE MATERIALS.

**Disposal** DISPOSE OF WASTE AND RESIDUES IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS.

**Hazard(s) not otherwise classified (HNOC)** NONE KNOWN.

**Hazard(s) not otherwise classified (HNOC)**

**SECTION 03 COMPOSITION/INFORMATION ON INGREDIENTS**

Substances

<b>Chemical Name</b>	<b>Common name and synonyms</b>	<b>CAS Number</b>	<b>%</b>
Microcrystalline Wax	Micro	63231-60-7	100

**SECTION 04 FIRST AID INFORMATION**

<b>Eye Contact</b>	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.
<b>Skin Contact</b>	SOLID FORM; NO SPECIFIC FIRST AID MEASURES NOTED. IF MATERIAL IS IN MOLTEN FORM, REMOVE CONTAMINATED CLOTHING. SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO A HOSPITAL IMMEDIATELY.
<b>Inhalation</b>	SOLID FORM: NO SPECIFIC MEASURES NOTED. IF FUMES FROM HEATED PRODUCT ARE INHALED, MOVE TO FRESH, WELL VENTILLATED AREA. CALL A POISON CENTER OR PHYSICIAN IF YOU FEEL UNWELL. THIS MATERIAL HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION EXPOSURE AT AMBIENT CONDITIONS.
<b>Ingestion</b>	SOLID FORM: NO SPECIFIC FIRST AID MEASURES NOTED. NOT ACUTELY TOXIC BY INGESTION. IF MATERIAL IS INGESTED, DO NOT INDUCE VOMITING. CONTACT WITH MOLTEN MATERIAL MAY CAUSE SEVERE BURNS. GAIN MEDICAL ATTENTION IMMEDIATELY.

**SECTION 05 FIREFIGHTING MEASURES**

<b>Flash Point</b>	>392°F	<b>Test Method</b>	ASTM D92 (C.O.C.)
<b>Autoignition Temperature</b>	NO DATA	<b>Test Method</b>	NO DATA
<i>FLAMMABLE LIMITS IN AIR % BY VOLUME</i>			
<b>Lower</b>	NO DATA	<b>Upper</b>	NO DATA
<b>Unsuitable Extinguishing Media</b>	DO NOT USE WATER. WATER WILL CAUSE FIRE TO SPREAD. MOLTEN WAX ACTS SIMILARLY TO A GREASE FIRE.		
<b>Suitable Extinguishing Media</b>	USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER FOG MAY BE USED FOR COOLING.		
<b>Special Firefighting Procedures</b>	WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.		
<b>Unusual Fire and Explosive Conditions</b>	DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION.		

**Special protective equipment and precautions for firefighters**

SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE.

**Specific Methods**

USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF OTHER INVOLVED MATERIALS. MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO SO WITHOUT RISK. COOL CONTAINER EXPOSED TO FLAMES WITH WATER FOG UNTIL WELL AFTER THE FIRE IS OUT.

**General fire hazards**

NO UNUSUAL FIRE OR EXPLOSION HAZARDS NOTED.

**SECTION 06 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures  
Methods and materials for containment and clean up**

KEEP UNNECESSARY PERSONNEL AWAY. DO NOT BREATHE MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINER OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. ENSURE ADEQUATE VENTILATION. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

HANDLE AS A THERMOPLASTIC. WITH MOLTEN SPILLS, ALLOW THE MATERIAL TO SOLIDIFY AND COLL. KEEP MATERIAL OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. RECOVER AND PLACE INTO APPROPRIATE CONTAINERS FOR RECYCLING OR DISPOSAL, ACCORDING TO LOCAL, STATE AND FEDERAL LAWS.

LARGE SPILLS: STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. DIKE THE SPILLED MATERIAL WHERE POSSIBLE. ALLOW MATERIAL TO SOLIDIFY AND SCRAPE UP. FOLLOWING PRODUCT RECOVER, FLUSH AREA WITH WATER.

**Environmental precautions**

SMALL SPILLS: ALLOW MOLTEN MATERIAL TO SOLIDIFY. NEVER RETURN SPILLS TO ORIGINAL CONTAINERS FOR RE-USE. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

AVOID RELEASE TO THE ENVIRONMENT. CONTACT LOCAL AUTHORITIES IN CASE OF SPILLAGE INTO DRAIN OR AQUATIC ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. DO NOT CONTAMINATE WATER.

**SECTION 07 HANDLING AND STORAGE****Handling & Storage Requirements**

DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS.

**SECTION 08 EXPOSURE CONTROLS AND PERSONAL PROTECTION****Biological limit values  
Appropriate engineering controls**

NO BIOLOGICAL EXPOSURE LIMITS NOTED FOR THE INGREDIENTS(S).

ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS. EYE WASH FACILITIES AND EMERGENCY SHOWER MUST BE AVAILABLE WHEN HANDLING THIS PRODUCT.

<b>Skin Protection</b>	SKIN PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF HANDLING HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, GLOVES, APRONS, ETC.).
<b>Respiratory Protection</b>	RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF FUMES ARE GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.
<b>Ventilation</b>	IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	WEAR APPROVED SAFETY GOGGLES. WEAR A FACE SHIELD WHEN WORKING WITH MOLTEN MATERIAL.
<b>Skin protection</b>	WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES WHEN HANDLING MOLTEN MATERIAL. SUITABLE GLOVES CAN BE RECOMMENDED BY THE GLOVE SUPPLIER.
<b>Other</b>	THE MATERIAL MAY BE UTILIZED IN MOLTEN FORM. PROPER PROTECTIVE SPLASH RESISTANT CLOTHING, THERMAL GLOVES, SPLASH RESISTANT SHOES, AND EYE SHIELDS MUST BE WORN TO PREVENT INJURY. USE MOLTEN MATERIAL IN WELL VENTILATED AREAS. WHEN WORKING IN CONFINED AREAS, USE OF APPROPRIATE RESPIRATORY GEAR IS RECOMMENDED.
<b>Respiratory protection</b>	IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS (WHERE APPLICABLE) OR TO AN ACCEPTABLE LEVEL (IN COUNTRIES WHERE EXPOSURE LIMITS HAVE NOT BEEN ESTABLISHED), AN APPROVED RESPIRATOR MUST BE WORN. 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 ADEQUATED PROTECTION.
<b>Thermal hazards</b>	WEAR APPROPRIATE THERMAL PROTECTIVE CLOTHING, WHEN NECESSARY.
<b>General hygiene</b>	CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

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**SECTION 09 PHYSICAL AND CHEMICAL PROPERTIES**


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<b>Flash Point</b>	>392.0 °F (>200°C)	<b>Percentage Volatile</b>	<1.0%
<b>Boiling Point</b>	>572°F (>300°C)	<b>Melting point/Freezing Point</b>	140 - 203°F (60 - 95°C)
<b>Vapor pressure</b>	<0.01 mm Hg (77°F/25°C)	<b>Vapor Density (Air=1)</b>	> 5 (Air =1)
<b>Appearance</b>	White to Dark Amber Solid	<b>Evaporation Rate (EE=1)</b>	<0.01
<b>Odor</b>	None	<b>Specific Gravity</b>	Approx 0.91 – 0.94 @ 25°C

<b>Vapor Pressure</b>	<0.01 mm Hg @ 25°C	<b>Molecular Weight</b>	NOT AVAILABLE
<b>Solubility</b>	Insoluble in water		

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**SECTION 10 STABILITY AND REACTIVITY**


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<b>Stability (thermal, light, etc)</b>	Stable	<b>Conditions to Avoid</b>	Temperatures exceeding flash point of material.
<b>Hazardous Polymerization</b>	Will not occur	<b>Incompatibility Materials to avoid</b>	May react with strong oxidizing agents
<b>Hazardous Decomposition Products</b>	None		

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**SECTION 11 TOXICOLOGICAL INFORMATION**


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<b>Inhalation</b>	NOT RELEVANT AT NORMAL ROOM TEMPERATURES. WHEN HEATED, IRRITATING VAPORS MAY BE FORMED. WAX FUMES HAVE BEEN REPORTED TO BE IRRITATING TO THE RESPIRATORY TRACT, ESPECIALLY TO SENSITIZED PERSONS.
<b>Skin contact</b>	HEALTH INJURIES ARE NOT KNOWN OR EXPECTED UNDER NORMAL USE. MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS.
<b>Eye contact</b>	HEALTH INJURIES ARE NOT KNOWN OR EXPECTED UNDER NORMAL USE. MOLTEN MATERIAL WILL PRODUCE THERMAL BURNS.
<b>Ingestion</b>	HEALTH INJURIES ARE NOT KNOWN OR EXPECTED UNDER NORMAL USE. CONTACT WITH HOT MATERIAL CAN CAUSE THERMAL BURNS WHICH MAY RESULT IN PERMANENT DAMAGE.
<b>Acute toxicity Respiratory or skin sensitization</b>	NOT EXPECTED TO BE ACUTELY TOXIC. NOT CLASSIFIED; NOT EXPECTED
<b>Germ cell mutagenicity</b>	NOT CLASSIFIED
<b>Carcinogenicity</b>	NOT EXPECTED TO BE HAZARDOUS BY OSHA CRITERIA.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	---- 3 – Not classifiable as to carcinogenicity to humans.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not Listed

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**SECTION 12 ECOLOGICAL INFORMATION**


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<b>Ecotoxicity</b>	THIS PRODUCT IS NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS.
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**SECTION 13 DISPOSAL CONSIDERATIONS**


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<b>Waste Disposal Method</b>	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED.
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DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

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**SECTION 14 TRANSPORTATION INFORMATION**

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DOT: NOT REGULATED AS DANGEROUS GOODS.  
IMDG: NOT REGULATED AS DANGEROUS GOODS.  
IATA: NOT REGULATED AS DANGEROUS GOODS.

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**SECTION 15 REGULATORY INFORMATION**

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**US Federal regulations**

THIS PRODUCT IS NOT KNOWN TO BE A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

**TSCA SECTION 12(B) EXPORT NOTIFICATION (40 CFR 707, Subpt. D)**

-- NOT REGULATED

**OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)**

-- NOT LISTED

**CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)**

-- NOT LISTED.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)**

**HAZARD CATEGORIES**

-Immediate Hazard – No

-Delayed Hazard – No

-Fire Hazard – No

-Pressure Hazard – No

-Reactivity Hazard – No

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCE**

-Not listed

**SARA 311/312 HAZARDOUS CHEMICAL – NO**

**SARA 313 (TRI reporting) – Not regulated**

**OTHER FEDERAL REGULATIONS**

**CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPs) LIST**

-Not regulated

**CLEAN AIR ACT (CAA) SECTION 112® ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130)**

-Not regulated

**SAFE DRINKING WATER ACT (SDWA) – Not regulated.**

**US STATE REGULATIONS**

**MASSACHUSETTS RTK – SUBSTANCE LIST**

Petrolatum (CAS 8009-03-8)

**NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW ACT**

Petrolatum (CAS 8009-03-8)

**PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW LAW**

Petrolatum (CAS 8009-03-8)

**RHODE ISLAND RTK**

Not regulated.

**CALIFORNIA PROPOSITION 65**

Not listed

**INTERNATIONAL INVENTORIES**

<b>COUNTRY OR REGION</b>	<b>INVENTORY NAME</b>	<b>ON INVENTORY (YES/NO)</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCs)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
USA & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

**SECTION 16 OTHER INFORMATION**

**Revision Date** 5/26/2015  
**HMIS® Ratings** Health: 0 Flammability: 1 Physical hazard: 0

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