SAFETY DATA SHEET
RECCO 165 Microcrystalline Wax
GHS HCS-2012 §1910.1200

Read the entire SDS for a complete hazard assessment.

Section 1. Product and Company Identification

1.1 Product Identifiers

Product Name: RECCO 165 Microcrystalline Wax
Composition: Wax, Microcrystalline
Synonyms: Micro waxes, Microcrystalline/Paraffin Wax,
Chemical Family: Petroleum Hydrocarbon
CAS Number 63231-60-7 EINECS No. 264-038-1

1.2 Recommended use Microcrystalline waxes typically used as a blending base in a variety of applications including cosmetic, pharmaceutical, food, and general industrial.

Restrictions on use: Commercial formulation use only.

1.3 Manufacturer and Supplier/Distributor:

Manufacturer	**Distributor**
Sonneborn, LLC	R.E. Carroll, Inc.
600 Parsippany Road, Suite 100	1570 North Olden Avenue
Parsippany, NJ 07054 USA	Trenton, NJ 08638-3204 USA
Phone: 724-756-2210	609-695-6211
Fax:	609-695-0102
Email:	johnb@recarroll.com

1.4 Emergency telephone number:

In the US: For a transport accident or leak, fire or major spill, call CHEMTREC, (800) 424-9300.
For International CHEMTREC assistance, call 1-703-527-3887 (collect calls accepted).

Section 2. Hazards Identification

2.1 Globally Harmonized System (GHS) Hazard Classification:

This SDS meets the requirements of GHS Revision 3, HCS 2012 (29 CFR 1910.1200).

GHS Classification: Not classified as hazardous under GHS.

Health Hazards:	None
Physical Hazards	None
Environmental Hazards	None

2.2 Label Elements including Precautionary Statements:

Hazard Pictogram: None

Signal Word: None

Hazard Statement: Exposure to fumes, vapors, or smoke of over-heated product can result in irritation of eyes. Direct contact of molten material will cause injury and burns.

Prevention: Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed or concerned: Get medical advice/attention.

Storage: Store in accordance with local regional national international regulations.

Disposal: Dispose of contents/container in accordance with local regional national international regulations.

2.3 Hazard(s) Not Otherwise Classified (HNOC): Heated product will cause thermal burns.

2.4 OTHER: HMIS Rating USA: Health: 0 Flammability: 1 Reactivity: 0 PPI: 0

Section 3. Composition/Information on Ingredients

Substance/Mixture: Substance.

Ingredient	% by Weight	CAS #	Hazard	Danger Symbol(s)
Microcrystalline Wax	100	63231-60-7	Not Applicable	None

Section 4. First-Aid Measures

General Information

If you feel unwell, seek medical advice (show label where possible). Show this safety data sheet to the doctor in attendance.

4.1 Ingestion

No specific first aid measures noted. Not acutely toxic by ingestion.

If material is ingested, DO NOT induce vomiting.

WHEN MOLTEN ONLY: Molten product can cause thermal burns. Obtain medical attention immediately.

4.2 Inhalation

If fumes from heated product are inhaled, move to fresh air.

Call a POISON CNTER or doctor/physician if you feel unwell.

WHEN MOLTEN ONLY: Obtain medical attention immediately. Exposedpersons should be kept under medical observation for at least 48 hours because delayed effects may occur.

4.3 Skin contact

Solid: No specific first aid measures noted.
WHEN MOLTEN ONLY: Molten product can cause thermal burns. Cool molten material adhering to skin as soon as possible. In serious cases, use emergency shower immediately. Immediately flush skin thoroughly with cold water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention to remove material adhering to skin and treatment of burns.

4.4 Eye contact

Solid: No specific first aid measures noted.
Exposure to fumes, vapors, or smoke of over-heated product can result in irritation of eyes.
Direct contact of molten material will cause injury and burns.
WHEN MOLTEN ONLY: Immediately flush eyes with water and continue washing for at least 15 minutes. If contact lenses are present, DO NOT delay irrigation or attempt to remove the lens. Obtain medical attention immediately.
When handling molten product, eye shield must be worn at all times.

4.5 Acute and delayed symptoms/effects None known**.**

4.6 Indication of immediate medical attention and notes for physicians:
Treat contact with molten material as thermal burns.

Section 5. Fire-Fighting Measures

5.1 Flammable Properties:

Flash Point: >93.4 °C {200 °F**)** PMCC ASTM D93
Upper explosion limits: 7.0% (molten)
Lower explosion limits: 0.9% (molten)
Thermal decomposition: Not applicable
Fire and Explosion Hazard: Not an explosion hazard.

5.2 Extinguishing media

Suitable: Treat as an oil fire:
- dry chemical
- carbon dioxide (in case of small fires)
- water fog
- foam

Unsuitable :
Do not use water jet. Oil will float on water and can spread any fire.

5.3 Special hazards arising from the chemical:

Unusual fire and explosion hazards: None known.

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating.

5.4 Special protective equipment and precautions for firefighters:

Special fire-fighting procedures:
Do NOT direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire. Cool containers exposed to heat with water spray and remove container, if no risk is involved. If a rail or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for firefighters: Self-contained breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures:

Keep unnecessary personnel away. Wear suitable protective equipment. Do not breathe mist or vapor.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation

6.2 Environmental precautions
Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulations or incinerate.

6.3 Methods and material for containment and cleaning up
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Allow material to solidify, and scrape up. Following product recovery, flush area with water.
Small Spills: Where possible allow molten material to solidify naturally. Never return spills to original containers for re-use. Floor may be slippery; use care to avoid falling.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information about personal protection equipment.
See Section 13 for disposal information.

Section 7. Handling and Storage

7.1 Precautions for safe handling:

Do not handle at temperatures >+40°C, unless wearing appropriate protective equipment. When kept in molten state, inert gas blanketing may be used to avoid material degradation. As a solid, avoid contamination by keeping in closed containers.
Do not handle until all safety precautions have been read and understood. Heat only in areas with appropriate exhaust ventilation. Do not breathe fume/mist/vapors. Avoid contact with molten material.
When using, do not eat, drink, or smoke. Observe good industrial hygiene practices.
Do not empty into drains. Avoid release to the environment.
Wash contaminated clothing before reuse.
The material is a solid at room temperature exhibiting elevated temperature softening characteristics. Above its softening point, the material liquefies and flows more readily as the temperature increases. The material may be used as a hot liquid for application purposes and requires caution in handling.

7.2 Conditions for safe storage, including all incompatibilities

VENTILATION
General (mechanical) room ventilation is expected to be satisfactory for use at room temperature

STORAGE
Keep away from heat, sparks, and flame. Do not store at temperatures >+40 ° C without proper safety review of storage equipment. Store protected from light. Keep in an area equipped with sprinklers.
Store away from incompatible materials.

Section 8. Exposure Controls and Personal Protection

Consult with a Health and Safety Professional for specific selections.

8.1 Control parameter: Occupational exposure limits

EXPOSURE LIMIT VALUES: No exposure limits or Biological limit values have been established for product.

Exposure limits (fumes) ACGIH (United States, 2002) TWA: 2mg/m3
NIOSH (United States, 2002) TWA: 2mg/m3

8.2 Appropriate engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

8.3 Personal protective equipment:

Respiratory protection:	None expected to be needed for solid product.
Hand protection/protective gloves:	Wear oil resistant gloves.
Environmental Exposure Controls:	None expected to be needed.

WHEN MOLTEN ONLY:

Hand protection: wear gloves impervious to this material and able to resist and protect employees from the elevated temperature.

Eye protection: Face shield or chemical splash goggles in case of splashing.

Skin protection: Wear protective clothing, such as long sleeves to minimize skin contact. Proper protective splash resistant clothing, thermal gloves, splash resistant shoes, must be worn to prevent injury.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

R*espiratory protection:* 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 appositive-pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Section 9. Physical and Chemical Properties

Physical State: Solid
Color: White to yellow
Odor: None or Mild Petroleum
Odor Threshold: N/A

Important health, safety, and environmental information

Flash Point: >93.4 °C (200 °F) Method: PMCC, ASTM 093
Flammability (solid, gaseous): Will support a flame above flash point
Danger of explosion: Product does not present an explosion hazard
Self igniting Product will not self ignite
Upper explosion limits: 7.0% (molten)
Lower explosion limits: 0.9% (molten)
Vapor Pressure: <0.1 kPa at 20 ° C
Evaporation rate (Butyl acetate < 1) : <0.01
Vapor Density (air=1) >5
Density at 20 C: 1.3 g/cm3
Relative Density at 25 C: 0.91-0.94
Density: at 100 °C >0.80 g/cm3
Bulk Density: Not available
Solubility in Water: Insoluble
Solubility in organic solvents: Soluble
Kinematic viscosity: 13-18 mm2/s at 100°C
Boiling Point: > 230°C
pH: N/A
Specific gravity (H20=1): <1
Partitioning coefficient log POW: >6 (estimated) This product is soluble in oil.
Percent volatiles: Nil
Autoignition Temperature: No Data
Melting Point: 54 - 102°C

Section 10. Stability and Reactivity

10.1 Chemical stability: Stable under normal temperature conditions and recommended use.

10.2 Possibility of hazardous reactions: No hazardous reactions if stored and handled as prescribed.

10.3 Conditions to avoid: Normal handling Keep out of direct sunlight.

10.4 Incompatible materials: Strong oxidizing agents.

10.5 Hazardous decomposition products:
Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. Fumes can be irritating.

10.6 Hazardous Polymerization: Will not polymerize.

Section 11. Toxicological Information

11.1 Information on the likely routes of exposure: Inhalation, ingestion, skin and eye contact.

11.2 Information on toxicological effects:

Acute toxicity: None known at normal temperature.

Skin corrosion/irritation: None known. Not classified as irritant.

Serious eye damage/irritation: None known. Not classified as irritant.

Inhalation: None known.

When heated, irritating vapors may be formed. Wax fumes have been reported to be irritating to the respiratory tract, especially to previously sensitized persons.

Respiratory sensitization: None known. Not classified as respiratory sensitizer.

Skin sensitization: None known. Not classified as dermal sensitizer.

Repeated dose toxicity: None known.

11.3 Carcinogenicity: Mutagenicity: Reproductive Toxicity Teratogenicity:

Not classified as a human carcinogen by ACGIH, NTP, or OSHA.

Not known to be a mutagen, teratogen, or reproductive hazard.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not likely, due to the solid form of the product.

Aspiration of large amounts of liquid material is not reported to cause lipid pneumonia.

Chronic effects

Not expected to be hazardous by OSHA criteria.

Exposure to vapors, fumes, or smoke from molten material handled in confined areas can produce irritation of respiratory tracts and possible physical discomfort to sensitive individuals.

In rats, chronic ingestion of paraffins has shown accumulation in target organs (liver, spleen) with associated nonspecific immune response.

Further information: None.

Section 12. Ecological Information

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological wastewater treatment plant.

12.1 Mobility: No information available.

12.2 Aquatic and terrestrial ecotoxicity: This material is not expected to be toxic to aquatic life.

12.3 Persistence and degradability: Insignificant degradability.

12.4 Bioaccumulative potential: Low bioaccumulation expected.

12.5 Other adverse effects: No other relevant information available.

Section 13. Disposal Considerations

13.1 Disposal methods:

Uncontaminated discarded product is not a hazardous waste under RCRA. Do not dump into any sewers, on the ground or into any body of water. All disposal practices must comply with all federal, state, and local laws and regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

13.2 Container disposal:
Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residues. Puncture or otherwise destroy empty container and dispose of in a facility permitted for nonhazardous waste.

Section 14. Transport Information

14.1 When transported at or <100 ° C this product is not regulated
14.2 UN number: Not regulated.
14.3 UN proper shipping name: Not regulated
14.4 U.S. DOT transport hazard class: Not regulated.
14.5 Packing group (if applicable): Not regulated.
14.6 Marine Pollutant (Yes/No): No
14.7 Special precaution: No information available.

When transported above >100 °C :

UN No.: UN3257 ELEVATED TEMPERAURE LIQUIDS, N.O.S. (9), 111, Class: 9 (M9)
Packaging Group: 111, Hazard No.: 99, Label: 9
Technical Description: Microcrystalline Wax
Freight Description Road: 65 Petroleum Oil, N.0.1.B.N.

IMDG/ICAO
This product is not regulated by IMDG/ICAO.
FORBIDDEN BY AIR @ >= 100°C

TDG-CANADA
This product is not regulated by TDG.

Section 15. Regulatory Information

U.S. Regulations

15.1 USA TSCA: Listed on the TSCA Inventory.

15.2 SARA Section 311/312 Hazard Categories:

Acute Hazard: No
Chronic Hazard: No
Fire Hazard: No
Reactive Hazard: No
Sudden Pressure Release: No

15.3 CERCLA Hazardous Substance SARA Section 304 Release Reporting:

Component(s)	Reportable Quantity
None	

15.4 SARA Section 302 Extremely Hazardous Substances:

Component(s)/ CAS Number	Concentration	Min	Max
None			

15.5 SARA Section 313 Toxic Chemicals:

Component(s)/ CAS Number	Reporting Threshold	Concentration Min	Max
None			

15.6 California Proposition 65:

This product is not known to contain chemical(s) known to the State of California to cause cancer or reproductive harm.

15.7 Pennsylvania Worker and Community Right To Know Act:

Hazardous Substances: None

15.8 New Jersey Worker and Community Right To Know Act:

MicrocrystallineWax	**100**	**63231-60-7 NJRTKTS# None**

Hazardous Substances: None

15.9 International Regulations:

EC/GHS classification

According to EC/GHS regulations, this product is not classified or labeled.

WHMIS Classification: This product is not a WHMIS controlled product.

Chemical Inventory

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this product are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

Japan: The ingredients of this product are on the ENCS inventory.

Section 16. Other Information

16.1 NFPA and HMIS Hazard Ratings:

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, the customer must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product SDS. This information is intended solely for the use of individuals trained in the particular hazard rating system.

Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme

NFPA (National Fire Protection Association) - Classification

Health	0 least
Flammability	1 slight
Instability or Reactivity	0 minimal

HMIS® [Hazardous Materials Identification System (Paint & Coating)] - Classification

Health	0 least
Flammability	1 slight
Reactivity	0 minimal

NFPA and HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered. This information is supplied solely for the use of individuals trained in the particular hazard rating system.

16.2 Revision information: Date of the previous revision: New SDS
Date of this revision: 06/29/2015 (Version 1.0)
Revision summary: Revised GHS/OSHA compliant SDS

16.3 Training advice: Provide adequate information, instruction and training for operators.

16.4 Key or legend to abbreviations and acronyms used in the safety data sheet:

ACGIH	American Conference of Governmental Industrial Hygienists
BEI	Biological Exposure Index
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organization for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides, and Toxic Substances
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
ppm	parts per million
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value

TWA	Time Weighted Average
Action Level	An exposure value set by OSHA that is lower than the PEL that will trigger the need for activities such as exposure monitoring and medical surveillance.

This Safety Data Sheet conforms to US GHS (Revision 3) Hazcom 2012

The opinions expressed herein are those of qualified experts within R.E. Carroll, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of R.E. Carroll, Inc., it is the user's obligation to determine the conditions of safe use of the products.

END OF SDS