

IGI Wax (Series 5000)

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer The International Group Inc. 50 Salome Dr. Toronto, ON M1S2A8, CA	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): IGI	Chemical Name: Microcrystalline Wax
Relevant identified uses of the substance or mixture: Various end uses e.g. pharmaceutical, personal care/cosmetics, food contact coatings, additive for wax blends, use in adhesives etc.	Uses advised against: No further relevant information available.
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: May 1, 2023

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
 Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012) and Regulation (EC) No 1272/2008

Physical hazards Not classified.
 Health hazards Not classified.
 Environmental hazards: Not classified.

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 None known.

Supplemental information None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Chemical Name	CAS No	EC No	Weight %	Classification
Paraffinic Hydrocarbons	N/A	N/A	≤90%	N/A
Fatty Acid	N/A	N/A	≤17%	N/A

The remaining unspecified ingredients are impurities and are not hazardous.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

4. FIRST AID MEASURES

Inhalation	Solid: No specific first aid measures noted. If fumes from heated product are inhaled: Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Solid: No specific first aid measures noted. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water and see a physician for removal of adhering material and treatment of burn.
Eye contact	Solid: No specific first aid measures noted. Exposure to fumes, vapors or smoke of overheated product can result in irritation of eyes. Direct contact of molten material will cause injury and burns. When handling molten products, eye shield must be worn at all times. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Should an accident occur, flush eyes with generous amounts of water for at least 15 minutes. Administer prompt first aid measures. Get medical attention if irritation develops and persists.
Ingestion	Solid: No specific first aid measures noted. Not acutely toxic by ingestion. If material is ingested, do not induce vomiting. Contact with hot product may cause severe burns. Get medical attention immediately.
Most important symptoms/effects, acute and delayed	Eye and skin contact: When heated, contact with molten product can cause injury and burns.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing Media	Do not use water on molten metal: Explosion hazard could result.
Specific hazards arising from the chemical	By heating and fire, irritating vapors/gases may be formed. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Firefighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Do not direct later at source of leak or safety devices as icing may occur. Use water spray to cool unopened containers. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after fire is out.
General fire hazards	No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions protective equipment and emergency procedures	Keep unnecessary personnel away. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of SDS.
Methods and material for containment and cleaning up	Handle as a thermoplastic. With molten spills, allow the material to solidify and cool. Keep material out of sewers and watercourses by diking or impounding. Recover and place into appropriate containers for recycling or disposal, according to prevailing local, state and federal laws.
	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. For waste disposal, see section 13 of the SDS.

Environmental Precautions Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate the water.

7. HANDLING AND STORAGE

Precautions for safe handling When kept in molten state, inert gas blanketing may be used to avoid material degradation. As a solid, avoid contamination by keeping it 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 fumes/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.

Conditions for safe storage, including any incompatibilities Keep away from heat, sparks, and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10). When kept in molten state, inert gas blanketing may be used to avoid material degradation. As a solid, avoid contamination by keeping it in closed containers.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Occupational exposure limits Fatty acid, type TWA, value of 3 mg/m³, respirable form
 Fatty acid, type TWA, value of 10 mg/m³, inhalable form
 Paraffinic Hydrocarbons, type TWA, value of 2 mg/m³, fume form

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles. Wear a face shield when working with molten material.

Skin protection Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other 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.

Respiratory protection If engineering controls do not maintain airborne concentration 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 adequate protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using, do not eat, drink, or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash working clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form: Solid (slabs, prills, pastilles or granules) Color: White to dark amber.	Melting point/freezing point: 114.8 – 257 °F (46 – 125 °C) Initial boiling point/range: > 572 °F (> 300 °C)
Odor: None.	Octanol/Water Partition Coefficient: Not data available.
Odor threshold: No data available.	pH Value: Not applicable.
Vapor pressure: < 0.01 mm Hg Vapor pressure temp: 77 °F (25 °C)	Flash point: > 392 °F (> 200 °C) ASTM D-92
Relative density: 0.9 – 0.93 (H2O = 1) Relative density temp: 77 °F (25 °C)	Flammability (solid, gaseous): Will support a flame above flash point.
Vapor Density: > 5 (Air = 1)	Ignition temperature: No data available.
Evaporation rate: < 0.01 (Butyl acetate = 1)	Decomposition temperature: No data available.
Solubility (water): < 0.1% Solubility temp (water): 68 °F (20 °C)	Explosion limits Lower: 0.9% Upper: 7%
Viscosity: No data available.	Oil/Water Partition Coefficient: < 0.01
Percent volatile: Negligible	Percent volatile: < 1

10. STABILITY AND REACTIVITY

Reactivity The product is stable and non-reactive under normal conditions of use, storage, and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Decomposition of this product can generate carbon dioxide, carbon monoxide and other products such as aldehydes and ketones depending on conditions of oxidation.

11. TOXICOLOGICAL INFORMATION

Inhalation	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.
Skin contact	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.
Eye contact	Health injuries are not known or expected under normal use. Molten material will produce thermal burns.
Ingestion	Health injuries are not known or expected under normal use. Contact with hot material can cause thermal burns, which may result in permanent damage.
Symptoms related to the physical, chemical and toxicological characteristics	Eye and skin contact. When heated, contact with molten product can cause injuries.
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Not classified. Thermal burn hazard – contact with hot material may cause thermal burns.
Serious eye damage	Not classified. Direct contact of molten product to the eyes will cause thermal burns and eye injuries.
Respiratory sensitization	Not classified.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Reproductive toxicity	Not classified.
Organ toxicity	Not classified.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	The product is insoluble in water.
Other adverse effects	No other adverse environmental effects are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste Code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residue. This material and its container must be disposed of in a safe manner (see: Disposal instructions)
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after the container is empty.

14. TRANSPORTATION INFORMATION

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Transport in bulk according to Annex II of Marpol 73/78 and IBC Code Not applicable.

General information This product is not regulated as dangerous goods for solid. Hot molten product requires a class 9 "HOT" with statement: Elevated temperature material, liquid, N.O.S. 9, UN3257, III (WAX).

15. REGULATORY INFORMATION

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 US EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification	Not regulated.
CERCLA Hazardous Substance List	Not listed.
OSHA Specifically Regulated Substances	Not regulated.
SARA Section 302 Extremely hazardous substance	Not listed.
SARA Section 311/312 Hazardous chemical	No.
SARA Section 304 Emergency release notification	Not regulated.
SARA Section 313 Specific toxic chemical listings	Substance is not listed.
Clean Air Act Section 112	Not regulated.
Safe Drinking Water Act	Not regulated.
European Inventory of Existing Commercial Chemical Substances (EINECS)	Not listed.
European List of Notified Chemical Substances (ELINCS)	Not listed.
Inventory of Existing Commercial Chemical Substances (IECSC)	Listed.
Canadian Non-Domestic Substances List (NDSL)	Not listed.
Canadian Domestic Substances List (DSL)	Listed.
Toxic Substances Control Act (TSCA) Inventory	Listed.
Australian Inventory of Chemical Substances (AICS)	Not listed.
Japanese Inventory of Existing and New Chemical Substances (ENCS)	Not listed.
Korean Existing Chemicals List (ECL)	Listed.
New Zealand Inventory	Listed.
Philippine Inventory of Chemicals and Chemicals Substances	Not listed.
Taiwan Chemical Substance Inventory (TCSI)	Listed.

California Proposition 65 This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.