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## Material Safety Data Sheet

### I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: KETCHUM GREEN EAR PASTE  
Product Code: 706-GWG247304  
MSDS Code: MSD-00545110  
Revision Number: 1  
Revision Date: 2005-04-05 16:39:53

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%
Sodium Salt of Sulfonated Castor Oil	10 - 30
Shellac	1 - 5

Please see Section VIII for product and component exposure guidelines.

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

### III. HAZARDS IDENTIFICATION

HMIS Rating Health: 1 Flammability: 0 Reactivity: 0

This product falls under the following WHMIS class:

This product is not controlled. Ce produit n'est pas contrôlé.

#### Immediate (Acute) Health Effects by Route of Exposure

**Inhalation:** Can cause minor respiratory irritation. Slightly irritating to the respiratory tract.  
**Skin Contact:** Can cause minor skin irritation, defatting, and dermatitis.  
**Eye Contact:** Can cause minor irritation, tearing and reddening.  
**Ingestion:** Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

#### Long-Term (Chronic) Health Effects

**Reproductive and Developmental:** No data available to indicate product or any components present at greater than 0.1% may cause birth defects.  
**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

This product is not a carcinogen and does not contain a carcinogen unless indicated by the word yes below:

OSHA No                      NTP No                      IARC No                      NIOSH No

**IV. FIRST-AID MEASURES**

**Inhalation:** Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen.

**Eyes:** None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**Skin Contact:** Wash with soap and water.

**Ingestion:** No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS.

**V. FIRE FIGHTING MEASURES**

**Flammability**

**Summary:**

**Extinguishing Media:** Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

**Fire and/or Explosion Hazards:** Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire. Use process enclosures to control the level of dust in the air.

**Fire Fighting Methods and Protection:** Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Use methods for the surrounding fire.

**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide

**Flash Point:** 93 C (200 F) and greater  
**Firepoint:** Testing has determined the material has no fire point.

**VI. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions and Equipment:** No adverse health effects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section VIII of this MSDS.

**VII. HANDLING AND STORAGE**

**Handling Precautions:** As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Minimize dust generation and accumulation

**Storage Conditions:** No special requirements. Keep container closed when not in use.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering Measures:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
- Respiratory Protection:** Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Respiratory protection may be required in addition to ventilation depending upon conditions of use.
- Eye Protection:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
- Skin Protection:** Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
- Gloves:** Wear impervious material no specific details available.

**Exposure Guidelines:**

Chemical Name	OSHA Exposure Limits	ACGIH TLV - TWA	ACGIH STEL	IDLH
Sodium Salt of Sulfonated Castor Oil Shellac		No TLV No TLV	No STEL No STEL	Not on list Not on list

If this product is provided in a dry powder state it should be considered a nuisance dust (PEL 10 mg/m3).

If the processing of this product produces a mist it should be considered to be an oil mist with a PEL of 5 mg/m3.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid, semi-solid, or solid
Solubility in Water:	Moderate; 50-99%
Volatiles, % by wt:	23.5
Volatiles, % by vol:	34.03
Volatile Organic Chemicals % by wt:	0.00
Volatile Organic Chemicals % by vol:	0.00
VOC lb/gal	0.00
VOC lb/gal (less water):	0.00
Solids % by weight:	76.5
Solids % by volume	65.97
Boiling Point:	100 deg. C 212 deg. F
Specific Gravity:	1.448
Bulk Density (Lb/Gal):	12.06

**X. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents.

**XI. TOXICOLOGICAL INFORMATION**

**Component Toxicology Data (NIOSH):**

KETCHUM GREEN EAR PASTE

**Chemical Name**  
Sodium Salt of Sulfonated Castor Oil  
Shellac

**LD50/LC50**  
No data available  
No data available

**XII. DISPOSAL CONSIDERATIONS**

**Waste Description for Spent Product:** Spent or discarded material is not expected to be a hazardous waste.  
**Disposal Methods:** Dispose in accordance with Federal, State, Provincial and Local regulations. Material may be compatible with industrial waste incineration or inclusion in a fuel blending program. This characterization is subject to approval by your waste management contractor. This material should be recycled if possible.

**XIII. REGULATORY INFORMATION**

**TSCA Status** All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Chemical Name	CAS #	Regulation	Percentage
Not on list		CERCLA	
Not on list		HAP	
Not on list		NPRI (Cdn)	
Not on list		PROP 65	
Not on list		SARA 313	
Not on list		SARA EHS	

The following items require export notification for TSCA

Chemical Name	TSCA 12b list section
Not on list	

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains information required by the Controlled Products Regulations.

**XIV. ADDITIONAL INFORMATION**

**References:**

**Disclaimer:** Flint Ink has prepared this Material Safety Data Sheet ("MSDS") in compliance with 29 CFR 1910.1200, understands that its customers may use this MSDS to comply with that section, and believes that the data set forth herein are accurate as of the date hereof; however, this MSDS shall not constitute a warranty with respect thereto.