

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION

**Product identifier** : **PERMA COSMETICS (All Shades)**

**Product Code(s)** : None reported.

**Product Use** : Embalming cosmetic.

**Chemical Family** : Mixture.

**Supplier's name and address:**  
**The Dodge Chemical Company (Canada) Ltd.**  
 1265 Fewster Drive  
 Mississauga, Ontario, Canada  
 L4W 1A2

**Manufacturer's name and address:**  
 Refer to Supplier

**Information Telephone #** : (905) 625-0311

**24 Hr. Emergency Tel #** : (613) 996-6666 (CANUTEC)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification** : WHMIS classification:  
 Class B2 (Flammable Liquids) ;  
 Class D2B (Materials Causing Other Toxic Effects, Toxic Material).  
 OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:  
 Flammable liquid ;  
 Acute Health Hazard;  
 Chronic Health Hazard.

**Emergency Overview** : Liquid; Various shades . Hydrocarbon odour.  
 Warning! Flammable liquid and vapour Vapours may cause flash fire. May be harmful if inhaled or swallowed. May be an aspiration hazard. Can enter the lungs and cause damage. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. Causes skin irritation. Repeated or prolonged exposure may result in kidney effects.

### POTENTIAL HEALTH EFFECTS:

#### Signs and symptoms of short-term (acute) exposure

*Inhalation* : Inhalation of vapours or mists may cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Inhalation of fumes, may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.

*Skin* : May cause mild to moderate skin irritation.

*Eyes* : May cause minor, temporary irritation to eyes.

*Ingestion* : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Product may present an aspiration hazard, if ingested in large amounts, causing life-threatening lung injury.

#### Effects of long-term (chronic) exposure

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Repeated or prolonged exposure may result in kidney effects.

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : Developmental hazard. See TOXICOLOGICAL INFORMATION, Section 11.

#### Potential environmental effects

: See ECOLOGICAL INFORMATION, Section 12.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
stoddard solvent	8052-41-3	40.00 - 70.00
Zinc oxide	1314-13-2	7.00 - 13.00

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Remove contaminated clothing. Wash off immediately with soap and plenty of water. If irritation persists, seek prompt medical attention. Wash contaminated clothing before re-use.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Do NOT induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant.

**SECTION 5 - FIRE FIGHTING MEASURES****Fire hazards/conditions of flammability**

- : Flammable liquid and vapour. Will be ignited by heat, sparks, flame, or other ignition sources. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Material will float on water and can be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

**Flammability classification (OSHA 29 CFR 1910.1200)**

- : Flammable Liquid Class 1C.

**Oxidizing properties**

- : None known.

**Explosion data: Sensitivity to mechanical impact / static discharge**

- : May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.

**Suitable extinguishing media** : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

**Special fire-fighting procedures/equipment**

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

**Hazardous combustion products**

- : Carbon oxides and other irritating fumes and smoke.

**NFPA Rating**

- |                  |                        |                       |                               |
|------------------|------------------------|-----------------------|-------------------------------|
| 0 - Minimal      | 1 - Slight             | 2 - Moderate          | 3 - Serious                   |
| <i>Health: 2</i> | <i>Flammability: 3</i> | <i>Instability: 0</i> | <i>Special Hazards: None.</i> |

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.
- Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
US CERCLA Reportable quantity (RQ): None reported.

**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Wear chemically resistant protective equipment during handling. Use only in well-ventilated areas. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Keep away from heat, sparks, and open flames. Keep away from bases and incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Wash thoroughly after handling. Keep out of the reach of children.
- Storage requirements** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area. Inspect periodically for damage or leaks.
- Incompatible materials** : Acids, strong oxidizing agents, bases.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
stoddard solvent	100 ppm	N/Av	500 ppm	N/Av
Zinc oxide	2 mg/m3 (respirable)	10 mg/m3 (respirable)	5 mg/m3 (fumes; respirable); 15 mg/m3 (total dust)	N/Av

- Ventilation and engineering measures** : Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.
- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
- Skin protection** : Solvent-resistant gloves. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles are recommended. Do not wear contact lenses.
- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn.
- General hygiene considerations** : Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- |   |   |
|---|---|
| <b>Physical state</b> : Liquid                                  | <b>Appearance</b> : Various shades                              |
| <b>Odour</b> : Slight hydrocarbon odour.                        | <b>Odour threshold</b> : N/Av                                   |
| <b>pH</b> : N/Av  |   |
| <b>Boiling point</b> : > 110°C (230°F)                          | <b>Specific gravity</b> : 0.80 - 0.83                           |
| <b>Melting/Freezing point</b> : N/Av                            | <b>Coefficient of water/oil distribution</b> : N/Av             |
| <b>Vapour pressure (mmHg @ 20° C / 68° F)</b> : < 10            | <b>Solubility in water</b> : Negligible                         |
| <b>Vapour density (Air = 1)</b> : > 1                           | <b>Evaporation rate (n-Butyl acetate = 1)</b> : < 1             |
| <b>Volatile organic Compounds (VOC's)</b> : N/Av                | <b>Volatiles (% by weight)</b> : 20 - 60%                       |
| <b>Flash point</b> : 28 - 30°C (82 - 86°F)                      |   |
| <b>Flash point Method</b> : TCC                                 | <b>Auto-ignition temperature</b> : N/Av                         |
| <b>Lower flammable limit (% by vol.)</b> : 1 (stoddard solvent) | <b>Upper flammable limit (% by vol.)</b> : 7 (stoddard solvent) |
| <b>Flame Projection Length</b> : N/Av                           | <b>Flashback observed</b> : N/Av                                |

**Section 10: Stability And Reactivity**

- Stability and reactivity** : Stable at ambient temperatures and pressures.
- Hazardous polymerization** : Hazardous polymerisation does not occur.

**Conditions to avoid** : Avoid contact with incompatible materials. Keep away from excessive heat, open flames, sparks and other possible sources of ignition.

**Materials To Avoid And Incompatibility** : Acids, strong oxidizing agents, bases.

**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Target organs** : Eyes, skin, respiratory system and digestive system. Kidneys.

**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
stoddard solvent	> 5500 mg/m3	> 5000 mg/kg	> 3000 mg/kg
Zinc oxide	N/Av	7950 mg/kg (mouse)	N/Av

**Carcinogenic status** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects** : Not expected to have other reproductive effects.

**Teratogenicity** : Not expected to be a teratogen.

**Mutagenicity** : Not expected to be mutagenic in humans.

**Epidemiology** : Not available.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Synergistic materials** : N/Av

**Irritancy** : Mild to moderate skin irritant. Mild eye irritant.

**other important hazards** : CNS depression may result from extreme exposures.

**Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

**Mobility** : No data is available on the product itself.

**Persistence** : No data is available on the product itself.

**Bioaccumulation potential** : No data is available on the product itself.

**Other Adverse Environmental effects** : No data is available on the product itself.


**SECTION 13 - DISPOSAL CONSIDERATIONS**


**Handling for Disposal** : Handle waste according to recommendations in Section 7.

**Methods of Disposal** : Improper disposal can cause damage to the environment. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14: TRANSPORT INFORMATION**

<b>Regulatory Information</b>	<b>UN Number</b>	<b>Shipping Name</b>	<b>Class</b>	<b>Packing Group</b>	<b>Label</b>
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (stoddard solvent)	3	III	

<b>TDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				
49CFR/DOT	UN1993	Flammable liquids, n.o.s. (Contains: Stoddard solvent)	3	III	
<b>49CFR/DOT Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.150.				

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Acute Health Hazard. Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**US State Right to Know Laws:**

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: stoddard solvent (CA, MA, MN, NJ, PA, RI); Zinc oxide (CA, MA, MN, NJ, PA, RI).

**International Information:**

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.**

**SECTION 16 - OTHER INFORMATION**


**HMIS Rating** : \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious  
*Health: \*2 Flammability: 3 Reactivity: 0*

**Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
 CA: California  
 CAS: Chemical Abstract Services  
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
 CFR: Code of Federal Regulations  
 CNS: Central Nervous System  
 DOT: Department of Transportation  
 HMIS: Hazardous Materials Identification System  
 HSDB: Hazardous Substances Data Bank  
 IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 MA: Massachusetts  
 MN: Minnesota  
 MSHA: Mine Safety and Health Administration  
 N/Ap: Not Applicable

N/Av: Not Available  
 NFPA: National Fire Protection Association  
 NIOSH: National Institute of Occupational Safety and Health  
 NJ: New Jersey  
 NTP: National Toxicology Program  
 OSHA: Occupational Safety and Health Administration  
 PA: Pennsylvania  
 PEL: Permissible exposure limit  
 RCRA: Resource Conservation and Recovery Act  
 RI: Rhode Island  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 SARA: Superfund Amendments and Reauthorization Act  
 STEL: Short Term Exposure Limit  
 TCC: Tagliabue Closed Cup  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009.
- 2. International Agency for Research on Cancer Monographs, searched 2010.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2010 (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - December 18, 2009 version.

<p><b>Prepared for:</b>                  The Dodge Chemical Company (Canada) Ltd.                  1265 Fewster Drive                  Mississauga, ON, Canada                  L4W 1A2                  Telephone: (905) 625-0311                  Please direct all enquiries to The Dodge Chemical Company (Canada).</p>	
<p><b>Prepared by:</b>                  ICC The Compliance Center Inc.  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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**Revision Information**

: Converted from 9 section format to 16 section format. All sections modified.

**END OF DOCUMENT**