Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 2001/58 EC Standards | MSDS Revision: 1.0 | MSDS Revision Date: 03/21/2011

1. PRODUCT IDENTIFICATION

1.1 Product Name:
GELCOLOR BY OPI - ALL SHADES

1.2 Chemical Name:
SOLVENT MIXTURE

1.3 Synonyms:
NA

1.4 Trade Names:
GC ### (Various Colors)

1.5 Product Use:
COSMETIC USE ONLY

1.6 Manufacturer's Name:
OPI PRODUCTS, INC.

1.7 Manufacturer's Address:
13034 SATICOY STREET, NO. HOLLYWOOD, CA 91605 USA

1.8 Emergency Phone:
CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300

1.9 Business Phone:
+1 (818) 759-2400 / +1 (800)-341-9999

2. HAZARD IDENTIFICATION

2.1 Hazard Identification:
This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia). Flammable liquid.

2.2 Routes of Entry: Inhalation: **YES** Absorption: **YES** Ingestion: **YES**

2.3 Effects of Exposure:

INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.

SKIN & EYES: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering. May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact.

INHALATION: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 2 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).

2.4 Symptoms of Overexposure:
Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering.

2.5 Acute Health Effects:
Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.

2.6 Chronic Health Effects:
None known.

2.7 Target Organs:
Eyes, skin and respiratory system.

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³)								OTHER
					ACGIH ppm		NOHSC ppm			OSHA ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
DI-HEMA TRIMETHYLHEXYL DICARBAMATE	72869-86-4	NA	276-957-5	≤ 60.0	NA	NA	NF	NF	NF	NA	NA	NA	
HEMA	868-77-9	OZ4725000	212-782-2	≤ 20.0	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROXYPROPYL METHACRYLATE	27813-02-1	UD3422500	248-666-3	≤ 15.0	NA	NA	NF	NF	NF	NA	NA	NA	
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	75980-60-8	NA	278-355-8	≤ 10.0	NA	NA	NF	NF	NF	NA	NA	NA	

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used
NOTE: all WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

3. COMPOSITION & INGREDIENT INFORMATION- continued

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³)								
					ACGIH ppm		NOHSC ppm			OSHA ppm			OTHER
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	NA	213-426-9	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
POLYSILICONE-13	158451-77-5	NA	NA	< 1.0	NA	NA	NF	NF	NF	NA	NA	NA	
MAY CONTAIN – (Colorants, Shimmers, & Color Blend Components)				0.0-5.0									
MICA	12001-26-2	VV8760000	310-127-6	NA	NA	NA	(2.5)	NF	NF	30	NA	NA	RESP FRAC
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	NA	10	NA	NF	NF	NF	10	NA	NA	
CI 75470 (CARMINE)	1390-65-40	FH8891000	215-724-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CALCIUM ALUMINUM BOROSILICATE	65997-17-3	NA	266-046-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
TIN OXIDE	18282-10-5	XQ400000	242-159-0	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SILICA	7631-86-9	VV7565000	231-545-4	NA	(10)	NA	NF	NF	NF	(6)	NA	NA	
RED 6 (CI 15850)	5858-81-1	NA	227-497-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
RED 7 (CI 15850)	5281-04-9	QJ1975000	226-109-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 60725 (VIOLET 2)	81-48-1	CB7700000	201-353-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77491 (IRON OXIDES)	1309-37-1	NO740000	215-168-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77492 (IRON OXIDES)	51274-00-1	NA	257-098-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77499 (IRON OXIDES)	1317-61-9	NA	215-277-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SYNTHETIC WAX	8002-74-2	RV0350000	232-315-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ISOPROPYL TITANIUM TRIISOSTEARATE	61417-49-0	NA	262-774-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 73360 (RED 30)	2379-74-0	NA	219-163-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 45410 (RED 27)	13473-26-2	NA	236-747-6	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77120 (BARIUM SULFATE)	7727-43-7	CR0600000	231-784-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77007 (ULTRAMARINES)	1302-83-6	NA	215-111-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (YELLOW 5)	1934-21-0	UQ6400000	217-699-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77163 (BISMUTH OXYCHLORIDE)	7787-59-9	EB2700000	232-122-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77742 (MANGANESE VIOLET)	10101-66-3	NA	236-591-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 77510 (FERRIC FERROCYANIDE)	14038-43-8	LJ8200000	237-875-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 42090 (BLUE1)	3844-45-9	BQ4725000	223-339-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	
HYDROGENATED POLYISOBUTENE	40921-86-6	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PALMITIC ACID	57-10-3	RT4550000	200-312-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PHENOXYETHANOL	122-99-6	KM0350000	204-589-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOIC ACID	65-85-0	DG0875000	200-618-2	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 17200 (RED 33)	3567-66-6	NA	222-656-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	
PEG-12 DIMETHICONE	68937-54-2	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	

3. COMPOSITION & INGREDIENT INFORMATION - continued

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³) ACGIH ppm TLV	ACGIH ppm STEL	NOHSC ppm ES-TWA	NOHSC ppm ES-STEL	NOHSC ppm ES-PEAK	OSHA ppm PEL	OSHA ppm STEL	OSHA ppm IDLH	OTHER
MAY CONTAIN – (Colorants, Shimmers, & Color Blend Components continued)				0.0-5.0									
CI 77000 (ALUMINUM POWDER)	7429-90-5	BD0330000	231-072-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	
SYNTHETIC FLUORPHLOGOPITE	12003-38-2	NA	234-426-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	
BUTYL ACETATE	123-86-4	AF7350000	204-658-1	NA	150	200	150	200	NF	200	200	1700	150 TWA
ETHYL ACETATE	141-78-6	AH5425000	205-500-4	NA	400	400	200	400	NF	NA	NA	2000	400 TWA
NITROCELLULOSE	9004-70-0	QW0970000	NA	NA	(10)	NE	NF	NF	NF	(10)	NE	NE	
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	NA	400	500	400	500	NF	400	500	2000	400 TWA
ADIPIC ACID/NEOPENTYL GLYCOL/TRIMELLITIC ANHYDRIDE COPOLYMER	28407-73-0	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA	
STEARALKONIUM HECTORITE	94891-33-5	NA	275-126-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
DIACETONE ALCOHOL	123-42-2	SA91000000	204-626-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
BENZOPHENONE-1	131-56-6	DJ0700000	205-029-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CITRIC ACID	77-92-9	GE7350000	201-069-1	NA	NA	NA	NF	NF	NF	NA	NA	NA	
ETHYL TOSYLAMIDE	1077-56-1	NA	214-073-3										

4. FIRST AID MEASURES

4.1 First Aid:

INGESTION: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.

EYES: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

SKIN: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. If spilled on clothes, remove clothes immediately. Remove gel with N.A.S. 99 ®. DO NOT REUSE clothes unless they have been thoroughly laundered.

INHALATION: Remove victim to fresh air at once.

4.2 Medical Conditions Aggravated by Exposure:

None known.

HEALTH	1
FLAMMABILITY	3
PHYSCIAL HAZARDS	0
PROTECTIVE EQUIPMENT	A
EYES	

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: **-4 °C (24 °F) estimated.**				
5.2	Autoignition Temperature: **NA**				
5.3	Flammability Limits:	Lower Explosive Limit (LEL):	**NE**	Upper Explosive Limit (UEL):	**NE**
5.4	Fire & Explosion Hazards: **WARNING: Flammable! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.**				
5.5	Extinguishing Methods: **HazChem Code: 3YE** **Hazard Identification Number: 33** **CO_2, Halon, Dry Chemical, Foam**				
5.6	Firefighting Procedures: **When involved in a fire, this product will ignite readily and decompose to produce carbon oxides.** **First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.** **HAZCHEM CODE: 3[Y]E**				

6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: **Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment.** **For small spills (e.g., <1 gallon) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.** **For spills ≥ 1 gallon, deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.**

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: **Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.**
7.2	Storage & Handling: **Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (see Section 10).**
7.3	Special Precautions: **Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.**

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Ventilation & Engineering Controls: **When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.**
8.2	Respiratory Protection: **No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.**
8.3	Eye Protection: **Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, Canadian standards, or the European Standard EN166.**
8.4	Hand Protection: **If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.**
8.5	Body Protection: **No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.**

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	**1.100-1.300**
9.2	Boiling Point:	**NA**
9.3	Melting Point:	**NE**
9.4	Evaporation Rate:	**NA**
9.5	Vapor Pressure:	**NA**
9.6	Molecular Weight:	**NE**
9.7	Appearance & Color:	**Viscous liquid, various colors**
9.8	Odor Threshold:	**ND**
9.9	Solubility:	**Insoluble**
9.10	pH	**NA**
9.11	Viscosity:	**1500 cPs to 5000 cPs**
9.12	Other Information:	**NA**

10. STABILITY & REACTIVITY

10.1	Stability: **Stable under ambient conditions when stored properly (see Section 7, Storage and Handling).**
10.2	Hazardous Decomposition Products: **If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO_2).**
10.3	Hazardous Polymerization: **May occur, if exposed to extremely high temperatures.**
10.4	Conditions to Avoid: **This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide).**
10.5	Incompatible Substances: **None known.**

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data: **This product has NOT been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.**
11.2	Acute Toxicity: **See Section 2.5**
11.3	Chronic Toxicity: **See Section 2.6**
11.4	Suspected Carcinogen: **This product contains Isopropyl Alcohol which is not carcinogenic to humans but is listed as a Group 3 carcinogen by the IARC.**
11.5	Reproductive Toxicity: **This product is not reported to produce reproductive effects in humans.**
	Mutagenicity: **This product is not reported to produce mutagenic effects in humans.**
	Embryotoxicity: **This product is not reported to produce embryotoxic effects in humans.**
	Teratogenicity: **This product is not reported to cause teratogenic effects in humans.**
	Reproductive Toxicity: **This product is not reported to cause reproductive effects in humans.**
11.6	Irritancy of Product: **See Section 2.3**
11.7	Biological Exposure Indices: **NE**
11.8	Physician Recommendations: **Treat symptomatically.**

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability: **The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows:** **<u>Ethyl Acetate</u>: K_{OC} = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours.** **<u>Butyl Acetate</u>: K_{OC} = 1.82. Water solubility: 120 parts H_2O at 25°C (77°F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours.** **<u>Isopropyl Alcohol</u>: Log K_{OW} = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated half-life in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.**
12.2	Effects on Plants & Animals: **There are no specific data available for this product.**
12.3	Effects on Aquatic Life: **There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.**

13. DISPOSAL CONSIDERATIONS

13.1	Waste Disposal: **Waste disposal must be in accordance with appropriate Federal, state, and local regulations.**
13.2	Special Considerations: **U.S. EPA WASTE NUMBER: D001 (characteristic - ignitable)**

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

14.1	49 CFR (GND): **EXCEPTED QUANTITY (49 CFR §173.4a) (≤ 30 ml)** **CONSUMER COMMODITY, ORM-D (≤ 1.0 L)** **UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)**
14.2	IATA (AIR): **EXCEPTED QUANTITY (AIR SHIPPER § 4.1.2) (≤ 30 ml)** **CONSUMER COMMODITY, 9, ID8000 (≤ 0.5 L)** **UN1263, PAINT RELATED MATERIAL, 3, II (> 0.5 L)**
14.3	IMDG (OCN): **EXCEPTED QUANTITY (2008 IMO § 3.5.1) (≤ 30 ml)** **UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (≤ 1.0 L)** **UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)**
14.4	TDGR (Canadian GND): **MARK PACKAGE "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (≤ 1.0 L)** **UN1263, PAINT RELATED MATERIAL, 3, II (> 1.0 L)**
14.5	ADR/RID (EU): **UN1263, PAINT RELATED MATERIAL, 3, II, *ADR***
14.6	MEXICO (SCT): **UN1263, PRODUCTOS PARA PINTURA, 3, II, CANTIDAD LIMITADA (≤ 1.0 L)**
14.7	ADGR (AUS): **UN1263, PAINT RELATED MATERIAL, 3, II, LTD QTY (≤ 1.0 L)**

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements: **SARA 304 (40 CFR Table 302.4) – Butyl Acetate, Ethyl Acetate**
15.2	SARA Threshold Planning Quantity: **There are no specific Threshold Planning Quantities for the components of this product.**
15.3	TSCA Inventory Status: **The components of this product are listed on the TSCA Inventory.**
15.4	CERCLA Reportable Quantity (RQ): **Butyl Acetate: 2270 kg; 5000 lbs.; Ethyl Acetate: 2270 kg; 5000 lbs.**
15.5	Other Federal Requirements: **This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).**
15.6	Other Canadian Regulations: **This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. Class B2 Flammable Liquid.**
15.7	State Regulatory Information: **Ingredients in this mixture on found on the following state criteria lists:**

California OSHA Hazardous Substances List	**Butyl Acetate, Ethyl Acetate, Isopropanol, Titanium dioxide**
Delaware Air Quality Management List	**Butyl Acetate, Nitrocellulose, Ethyl Acetate**
Massachusetts Hazardous Substances List	**Butyl Acetate, Nitrocellulose, Ethyl Acetate, Isopropanol, Silica**
Minnesota Hazardous Substances List	**Butyl Acetate, Ethyl Acetate, Isopropanol, Silica**
New Jersey Right to Know Hazardous Substances List	**Isopropanol**
New York List of Hazardous Substances	**Butyl Acetate, Ethyl Acetate**
Pennsylvania Hazardous Substances List	**Butyl Acetate, Ethyl Acetate, Isopropanol, Silica**
Washington Permissible Exposure Limits for Air Contaminants	**Butyl Acetate, Ethyl Acetate, Isopropanol**
Wisconsin Hazardous Substances List	**Ethyl Acetate**

15. REGULATORY INFORMATION - continued

15.8 67/548/EEC (European Union) Requirements:

The primary component of this product is not listed in Annex I of EU Directive 67/548/EEC:

Hema: (Xi) Irritant. R: 43 May cause sensitization by skin contact. S: 2-26-28 Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water.

Ethyl Acetate: Flammable (F). R: 11-36/37/38 – Highly flammable. Irritating to eyes, respiratory system and skin. S: 2-16-23-29-33 – Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas, fumes, vapor or spray. Do not empty into drains. Take precautionary measures against static discharges.

Butyl Acetate: Flammable (F). R: Flammable. S: 9-16-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Isopropanol: Flammable (F). R: 11-36/37 – Highly flammable. Irritating to eyes and respiratory system. S: 2-7-16-24/25/26 – Keep out of the reach of children. Keep container tightly closed. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

HEMA XI R43

HAZCHEM CODE: 3[Y]E

16. OTHER INFORMATION

16.1 Other Information:

EXTREMELY FLAMMABLE! Keep away from heat or flame. Use only as directed. Avoid eye contact. If contact occurs, flush eye thoroughly with running water. Use only in a well-ventilated area. If redness or other signs of adverse reaction occur, discontinue use immediately. Keep container closed. Store in a cool place. **KEEP OUT OF REACH OF CHILDREN.**

16.2 Terms & Definitions:

Please see last page of this MSDS.

16.3 Disclaimer:

This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & OPI Products' knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.

16.4 Prepared for:

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16.5 Prepared by:

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Training & Consulting

DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

FIRST AID MEASURES:

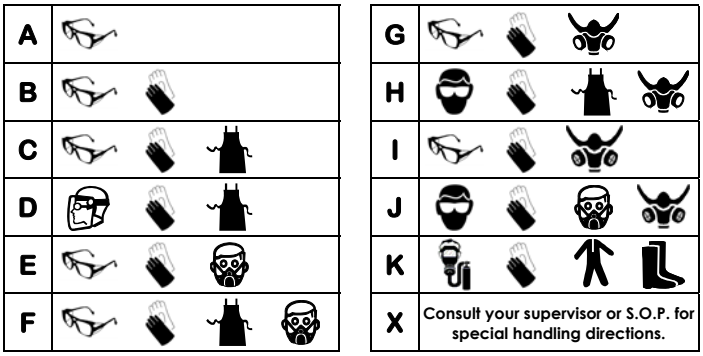
CPR	Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body.

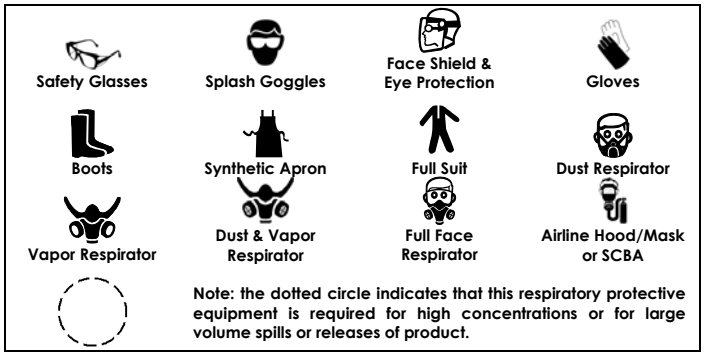
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard

PERSONAL PROTECTION RATINGS:





OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
NF	Not Found
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

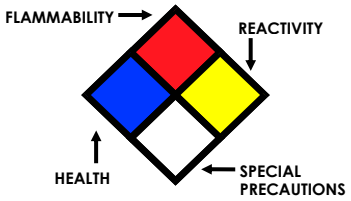
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
~~W~~	Use No Water
OX	Oxidizer



TOXICOLOGICAL INFORMATION:

LD_{50}	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s
LC_{50}	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD_{lo}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD_{lo}, LD_{lo}, & LD_o or TC, TC_o, LC_{lo}, & LC_o	Lowest dose (or concentration) to cause lethal or toxic effects
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL_m	Median threshold limit
log K_{OW} or log K_{OC}	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)

EC INFORMATION:

C	E	F	N	O	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful