



SAFETY DATA SHEET

SHINHAN PROFESSIONAL OIL COLORS

According to Regulation (EC) No. 1907/2006 (REACH)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1** Product identifier: ShinHan Professional Oil Colors
 701 Crimson Lake, 702 Chinese Red, 703 Vermilion(H),
 706 Permanent Yellow Light, 707 Permanent Yellow Orange, 708 Yellow Ochre
 709 Viridian(H), 711 Sap Green, 712 Permanent Green Pale,
 713 Permanent Green Middle, 714 Olive Green, 717 Ultramarine Blue,
 720 Raw Umber, 721 Burnt Umber, 722 Burnt Sienna, 723 Ivory Black,
 726 French Red Vermilion, 727 Indian Yellow, 728 Permanent Yellow Deep
 729 Green Oxide of Chrome, 730 Ice Blue, 731 Prussian Blue, 734 Stable Violet
 735 Red Ochre, 736 Brown Pink, 739 Silver White, 740 Titanium White,
 742 Light Red Bright, 744 Permanent Green Light, 749 Raw Sienna
 751 Transparent Medium, 754 Foundation Umber, 755 Foundation Grey
 756 Carmine, 757 Wine Red, 758 Cobalt Violet Pale, 759 Burnt Sienna Deep
 760 Mineral Violet, 761 Apricot Yellow, 762 Hydrangea Blue, 763 Manganese Blue
 765 Pink Madder, 768 Brown Red, 769 Aureolin, 771 Cinnabar Green Deep,
 772 Cobalt Violet Pink, 776 Mars Orange, 777 Sepia, 778 Payne's Grey,
 779 Foundation Greenish, 780 Viridian Green, 781 Grass Green,
 782 Greenish Yellow, 783 Cadmium Crimson, 784 Cadmium Red Deep,
 785 Cadmium Scarlet, 786 Cadmium Orange Pale, 787 Cadmium Yellow Light
 788 Cadmium Lemon Prim, 789 Cadmium Green Prim, 790 Aurora Pink
 791 Cobalt Green Pale, 792 Cobalt Green Dark, 793 Cobalt Blue, 794 Indigo
 795 Manganese Violet, 796 Columbia Red Deep, 797 Scarlet, 799 Alizarin Crimson
 7100 Raw Umber Light, 7101 Gold Ochre, 7102 Coffee Brown, 7103 Dark Green,
 7104 Permanent Yellow, 7106 Burnt Umber Light, 7107 Lamp Black,
 7108 Permanent White, 7109 Foundation White
- 1.2** Relevant identified uses of the substance or mixture and uses advised against:
 Relevant identified uses: Paint for oil painting.
 Uses advised against: No data available.
- 1.3** Details of the supplier of the safety data sheet:
 Company name : SHINHANART MATERIALS INC.
 Address : 154 Bulgwang-ro, Eunpyeong-gu, Seoul, Korea
 Email : info@shinhanart.com
- 1.4** Emergency telephone number:
 - Tel : +82 02-357-2651 - Fax : +82 02-357-7481

SECTION 2: Hazards identification

- 2.1** Classification of the substance or mixture:
- 2.1.1** Classification according to Directive 1999/45/EC: Mixture is not classified as dangerous according to Directive 1999/45/EC.
- 2.1.2** Classification according to Regulation (EC) No 1272/2008: Mixture is classified as dangerous according to Regulation (EC) No 1272/2008.
- 2.2** Label elements:
 Labeling according to Regulation (EC) No 1272/2008:
 Not applicable.
- 2.3** Other hazards: No additional information available.

SECTION 3: Composition/information on ingredients

- 3.1** Substances: Not relevant.
- 3.2** Mixtures: The mixture contains these substances:

Substance name	EC/CAS No.	Registr. No.	Classification			Conc. (%)
			67/548/EE C	CLP		
				Hazard Class and Category Code(s)	Hazard statement	Pictogram/Signal word
soybean oil	232-274-4/ 8001-22-7	-	Not classified	Not classified		20-30
linseed oil	232-278-6/ 8001-26-1	-	Not classified	Not classified		10-15
pigments	-		Not classified	Not classified		40-55

**SECTION 4: First aid measures**

- 4.1** Description of first aid measures:
Following inhalation: Move to fresh air. Call a physician if symptoms develop or persist.
Following skin contact: Wash off with soap and water. Get medical attention if irritation or rash develops.
Following eye contact: Rinse with water. Get medical attention if irritation develops and persists.
Following ingestion: Rinse mouth. Get medical attention if symptoms occur.
- 4.2** Most important symptoms and effects, both acute and delayed: Adverse effects are not known.
- 4.3** Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: Firefighting measures

- 5.1** Extinguishing media:
Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
- 5.2** Special hazards arising from the substance or mixture: By heating and fire, harmful vapors/gases may be formed.
- 5.3** Advice for firefighters: Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

SECTION 6: Accidental release measures

- 6.1** Personal precautions, protective equipment and emergency procedures:
For non-emergency personnel: Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
For emergency responders: No data available.
- 6.2** Environmental precautions: Avoid discharge into drains, water courses or onto the ground.
- 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.
- 6.4** Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1** Precautions for safe handling: No specific recommendations for technical measures. When using do not eat, drink or smoke. Use personal protection recommended in Section 8 of the MSDS. For further information on contact avoidance measures, please refer to section 10 of the MSDS.
- 7.2** Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS). Safe packaging materials: Keep in original container.
- 7.3** Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

- 8.1** Control parameters:
European Union (Directive 98/24/EC): Not established.
- 8.2** Exposure controls:
- 8.2.1** Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process



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enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2 Individual protection measures, such as personal protective equipment:

8.2.2.1 Eye/face protection: In risk of splashing, use eye/face protection.

8.2.2.2 Skin protection:

Hand protection: Wear protective gloves.

Other: Wear suitable protective clothing.

8.2.2.3 Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

8.2.2.4 Thermal hazards: No data available.

8.2.3 Environmental exposure controls: Avoid discharge into drains, water courses or into the ground.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	liquid
Odour:	no data available
Odour threshold:	no data available
pH:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	not flammable less than 110°C
Autoignition point:	not autoignition less than 500°C
Evaporation rate:	no data available
Flammability (solid, gas):	not flammable
Upper/lower flammability or explosive limits:	no data available
Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	no data available
Solubility(ies):	no data available
Partition coefficient: n-octanol/water:	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
Viscosity:	no data available
Explosive properties:	not explosive
Oxidising properties:	not oxidising

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

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

10.2 Chemical stability: Material is stable under normal conditions.

10.3 Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid: None established.

10.5 Incompatible materials: None established.

10.6 Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Substances:

No data available.

Mixtures:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.



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Germ cell mutagenicity: Based on available data, the classification criteria are not met. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met. This product is not expected to cause reproductive or developmental effects.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity:

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.

12.2 Persistence and degradability: No data is available on the degradability of this product.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Dispose in accordance with all applicable regulations.

Residual waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. 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 container is emptied.

Local disposal regulations: Contract with a disposal operator licensed by the Law on Disposal and Cleaning. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.

SECTION 14: Transport information

14.1 UN number: Not applicable. Not regulated as dangerous goods.

14.2 UN proper shipping name: Not applicable.

14.3 Transport hazard class(es): Not applicable.

14.4 Packing group: Not applicable.

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: The substances in the mixture are not subject to authorisation under Title VII or restrictions under Title VIII of Regulation (EC) No. 1907/2006.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;



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Regulation (EC) No 1272/2008 of the European parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations;

COUNCIL DIRECTIVE of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC).

Industrial Safety and Health Act

Notifiable substances: Not regulated.

Labeling substances: Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances: Not regulated.

Poisonous substances: Not regulated.

Deleterious substances: Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances: Not regulated.

Class II specified chemical substances: Not regulated.

Monitoring chemical substances: Not regulated.

Priority Assessment Chemical Substances (PACs): Not regulated.

Reporting Exempted Substances: Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content): Not regulated.

Class 1 substances (substance name, ordinance number and content): Not regulated.

Class 2 substances (substance name, ordinance number and content): Not regulated.

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule: Not regulated.

Air Law, Enforcement Rule: Not regulated.

Explosives Control Act: Not regulated.

15.2 Chemical safety assessment: Chemical safety assessment is not available.

SECTION 16: Other information

16.1 List of relevant risk phrases and hazard statements: Not relevant.

16.2 Instructions for the training: Product handling instruction shall be included into the educational system about the safety work (initial training, training at the workplace, repeated training) according to specific conditions at the workplace.

16.3 Recommended restrictions on use (i.e. non-statutory recommendations by supplier): Mixture should not be used for any other purpose than for which is appointed (point 1.2). Because of the fact that specific conditions of use of mixture are out of supplier's control, it is responsibility of the user to adjust the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and it cannot be considered as technical information about product.

16.4 Sources of key data used to compile the Safety Data Sheet: SDS was elaborated according to requirements set in Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council. SDS was prepared using data from the producer.

16.5 Sources of key data used to compile the Safety Data Sheet: SDS was elaborated according to requirements set in Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council. SDS was prepared using data from the producer.

16.6 Purpose of SDS: Purpose of this SDS is to provide relevant information for users of product to ensure proper handling and control of risks/hazards.