

1368005, 1368006,
 1368007, 1368008, 1368009,
 1368010, 1368011, 1368012,
 1368013, 1368025, 1370726,
 1370727, 1439063, 1439064

True Flow Colours & Mediums (Gesso)

MSDS Preparation Date (mm/dd/yyyy): 04/22/2013

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : Sax True Flow Colours & Mediums
Product Code(s) : Not available.
Product Use : Water-based acrylic paint.
Chemical Family : Mixture.
Distributed By : School Specialty Inc.

Information Telephone # : 1-888-388-3224

24 Hr. Emergency Tel # : Not available.

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification: Acute Health Hazard.

Emergency Overview : White or coloured paste. Mild ammonia odour.
 Caution! May cause mild transient irritation. Ingestion of large amounts may be harmful.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

- Inhalation* : None expected, when used as intended. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.
Skin : Direct skin contact may result in little or no irritation. Prolonged contact, may be more irritating.
Eyes : May cause mild transient irritation.
Ingestion : May cause irritation of mouth, throat, and stomach. Swallowing may cause irritation, nausea and vomiting. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Effects of long-term (chronic) exposure

- : None known or reported by the manufacturer.
Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.
Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%
All Colours and Mediums (Gesso) contain the following ingredients:		
Titanium dioxide	13463-67-7	15.00 - 40.00 - colours / 5.0-10.00 - Gesso
Propylene glycol	57-55-6	1.00 - 5.00-colours / 1.0-2.5 -Gesso
Texanol	25265-77-4	1.00 - 3.00

Carbon Black also contains the following component:		
Carbon black	1333-86-4	1.50 - 2.50
Chrome Oxide also contains the following component:		
Chromium (III) oxide	1308-38-9	8.00 - 10.00
Umbers, Raw Sienna, Red Oxide and Yellow Ochre also contain the following component:		
Ferric oxide	1309-37-1	3.00 - 7.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth if victim is unconscious. Consult a physician.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

- Fire hazards/conditions of flammability** : Not flammable under normal conditions of use. 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)** : Non-flammable.
- Oxidizing properties** : None known.
- Explosion data: Sensitivity to mechanical impact / static discharge** : Not expected to be sensitive to mechanical impact or static discharge.
- Suitable extinguishing media** : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- 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. Use water to cool fire-exposed containers.
- Hazardous combustion products** : Carbon oxides; Sulphur oxides; Nitrogen oxides (NOx); Metal oxides; Other unidentified organic compounds.
- NFPA Rating**
- | | | | |
|--------------------|------------------------|-----------------------|------------------------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious |
| <i>Health: 1</i> | <i>Flammability: 1</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. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically 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. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- 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). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : None known or reported by the manufacturer.

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 appropriate protective equipment. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use.
- Storage requirements** : Store in a cool, dry, well ventilated area. Keep away from incompatibles. Inspect periodically for damage or leaks. Do not freeze. Recommended storage temperature: 0 - 30°C (32 - 86°F).
- Incompatible materials** : Oxidizing agents; Reducing agents; Strong acids; Strong bases.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
All Colours and Mediums (Gesso) contain the following ingredients:				
Titanium dioxide	10 mg/m ³	N/Av	15 mg/m ³ (total dust)	N/Av
Propylene glycol	10 mg/m ³ (AIHA WEEL)	N/Av	N/Av	N/Av
Texanol	N/Av	N/Av	N/Av	N/Av
Black also contains the following component:				
Carbon black	3.5 mg/m ³	N/Av	3.5 mg/m ³	N/Av
Chrome Oxide also contains the following component:				
Chromium (III) oxide	0.5 mg/m ³ (as 'Cr III compounds')	N/Av	0.5 mg/m ³ (as 'Cr III compounds')	N/Av
Umbers, Raw Sienna, Red Oxide and Yellow Ochre also contain the following component:				
Ferric oxide	(respirable) 5 mg/m ³	N/Av	10 mg/m ³ (fume)	N/Av

Ventilation and engineering measures

- : Use with adequate ventilation. General room ventilation is normally adequate.

Respiratory protection

- : In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

- : None required under normal conditions. For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection

- : Safety goggles or glasses as appropriate for the job.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing vapour or mist. 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

Physical state	: liquid	Appearance	: White or coloured liquid.
Odour	: Mild ammonia odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: 100 - 130°C (212 - 266°F)	Specific gravity	: 1.0 - 1.4
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: Dilutable.
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: N/Av
Flash point	: Non-flammable.		
Flash point Method	: N/Av	Auto-ignition temperature	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Upper flammable limit (% by vol.)	: N/Av
Flame Projection Length	: N/Av	Flashback observed	: N/Av

Section 10: Stability And Reactivity

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed.
Hazardous polymerization	: Will not occur.
Conditions to avoid	: Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.
Materials To Avoid And Incompatibility	: Incompatible materials (see Section 7).
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.
Routes of exposure	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : NO <i>Skin & Eyes</i> : YES <i>Ingestion</i> : 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>	LC ₅₀ (4hr)		LD ₅₀	
	<u>inh.</u>	<u>rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
All Colours and Mediums (Gesso) contain the following ingredients:				
Titanium dioxide	> 6820 mg/m ³		> 25,000 mg/kg	> 10,000 mg/kg
Propylene glycol	N/Av		21,800 mg/kg	20,800 mg/kg
Texanol	> 3500 mg/m ³ /6H		3200 mg/kg	> 20 mL/kg
Carbon Black also contains the following component:				
Carbon black	6750 mg/m ³		> 15,400 mg/kg	> 3000 mg/kg
Chrome Oxide also contains the following component:				
Chromium (III) oxide	N/Av		N/Av	N/Av
Umbers, Raw Sienna, Red Oxide and Yellow Ochre also contain the following component:				
Ferric oxide	N/Av		> 10,000 mg/kg	N/Av

- Carcinogenic status** : This product contains titanium dioxide, an IARC Group 2B carcinogen. However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use, Titanium dioxide cannot become airborne. The carcinogenic effects of Titanium dioxide are therefore not applicable to this product. Rheotech Carbon Black also contains Carbon black, an IARC 2B carcinogen. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The carcinogenic effects of Carbon black are therefore not applicable to this product.
- Reproductive effects** : Not expected to have other reproductive effects.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Not expected to be mutagenic in humans. Rheotech Carbon Black contains Carbon black. Carbon black is suspected of causing mutations in non-reproductive cells, based on animal data. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The mutagenic effects of Carbon black are therefore not applicable to this product.
- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : Not available.
- Irritancy** : Slightly irritating.
- Other important hazards** : CNS depression may result from extreme exposures.
- Conditions aggravated by overexposure** : Pre-existing skin 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** : 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

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	none	

49CFR/DOT Additional Information	None.
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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: Immediate (Acute) 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: Rheotech Carbon Black contains Carbon black. Carbon black is known by the state of California to cause cancer. However, Carbon black is listed when found in unbound, airborne particles of respirable size.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: titanium dioxide (MA, MN, NJ, PA, RI); Propylene glycol (MN, NJ, PA, RI); Carbon black (CA, MA, MN, NJ, PA, RI); Chromium (III) oxide (MA, NJ); Ferric oxide (CA, MA, MN, NJ, PA, RI).

International Information:

Canadian WHMIS Classification: 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 according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

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

- Legend :**
- ACGIH: American Conference of Governmental Industrial Hygienists
 - AIHA: American Industrial Hygiene Association
 - 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
 - EPA: Environmental Protection Agency
 - EST: Eastern Standard Time
 - HMIS: Hazardous Materials Identification System
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - IUCLID: International Uniform Chemical Information Database
 - LC: Lethal Concentration
 - LD: Lethal Dose
 - MA: Massachusetts

- MN: Minnesota
- 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
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TWA: Time Weighted Average
- WEEL: Workplace Environmental Exposure Level
- WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2011.
- 2. International Agency for Research on Cancer Monographs, searched 2011.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2011 (Chempendium, HSDB, RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists - October 2006 version.
- 6. California Proposition 65 List - May 20, 2011 version.

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<p>Prepared For: School Specialty Inc.</p>	

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Preparation Date (mm/dd/yyyy)

: 04/22/2013

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