Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • **Touch up paint, Grey and Blue**

Synonyms • Touch Up Paint

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Touch up paint

1.3 Details of the supplier of the safety data sheet

Manufacturer • BUEHLER, a division of Illinios Tool Works Inc.

41 Waukegan Road
Lake Bluff, IL 60044
United States
https://www.buehler.com

Telephone (Technical) • 847-295-6500

1.4 Emergency telephone number

Manufacturer • 800-424-9300 - CHEMTREC

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Flammable Liquids 2 - H225
Acute Toxicity Dermal 4 - H312
Skin Irritation 2 - H315
Acute Toxicity Inhalation 4 - H332
Germ Cell Mutagenicity 2 - H341
Carcinogenicity 2 - H351
Specific Target Organ Toxicity Repeated Exposure 2 - H373

DSD/DPD • Highly Flammable (F)
Harmful (Xn)
Irritant (Xi)
Carcinogenic Substances - Category 3
Mutagenic Substances - Category 3
R11, R20/21, R38, R40, R48/20, R68

2.2 Label Elements

CLP

DANGER

Hazard statements

- H225 - Highly flammable liquid and vapour
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H332 - Harmful if inhaled
H341 - Suspected of causing genetic defects.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground and/or bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe mists, vapours, and/or spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.

Response

- P370+P378 - In case of fire: Use appropriate media for extinction.
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 - Wash contaminated clothing before reuse.
P321 - Specific treatment, see supplemental first aid information.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.

Storage/Disposal

- P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Supplemental information

- 15 percent of this product consists of an ingredient of unknown toxicity.

DSD/DPD

Risk phrases

- R11 - Highly flammable.
R20/21 - Harmful by inhalation and in contact with skin.
R38 - Irritating to skin.
R40 - Limited evidence of a carcinogenic effect.
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R68 - Possible risk of irreversible effects.

Safety phrases

- S9 - Keep container in a well ventilated place
S16 - Keep away from sources of ignition - No Smoking.
S36 - Wear suitable protective clothing.
S37 - Wear suitable gloves.
S53 - Avoid exposure - obtain special instructions before use.

2.3 Other Hazards

CLP	• According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
DSD/DPD	• According to European Directive 1999/45/EC this material is considered dangerous.

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2.1 Classification of the substance or mixture

UN GHS

- Flammable Liquids 2
  Skin Irritation 2
  Eye Irritation 2
  Acute Toxicity Inhalation 4
  Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Germ Cell Mutagenicity 2
  Carcinogenicity 2
  Reproductive Toxicity 1B
  Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

UN GHS

DANGER

Hazard statements

- Highly flammable liquid and vapour
  Causes skin irritation
  Causes serious eye irritation
  Harmful if inhaled
  May cause respiratory irritation
  May cause drowsiness or dizziness
  Suspected of causing genetic defects.
  Suspected of causing cancer.
  May damage fertility or the unborn child.
  May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
  Keep container tightly closed.
  Ground and/or bond container and receiving equipment.
  Use explosion-proof electrical/ventilating/lighting/equipment.
  Use only non-sparking tools.
  Take precautionary measures against static discharge.
  Do not breathe mists, vapours, and/or spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves/protective clothing/eye protection/face protection.
  Use personal protective equipment as required.

Response

- In case of fire: Use appropriate media for extinction.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Call a POISON CENTER or doctor/physician if you feel unwell.
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  Specific treatment, see supplemental first aid information.
  Take off contaminated clothing and wash before reuse.
  If skin irritation occurs: Get medical advice/attention.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal

- Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS

- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2
Skin Irritation 2
Eye Irritation 2
Acute Toxicity Inhalation 4
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Germ Cell Mutagenicity 2
Carcinogenicity 2
Reproductive Toxicity 1B
Specific Target Organ Toxicity Repeated Exposure 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements

- Highly flammable liquid and vapour
Causes skin irritation
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing genetic defects.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

- Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Ground and/or bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe mists, vapours, and/or spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

- In case of fire: Use appropriate media for extinction.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
If on skin: Wash with plenty of water .
Specific treatment, see supplemental first aid information.
Take off contaminated clothing and wash before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

Storage/Disposal

- Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Flammable Liquids - B2
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS

- Flammable Liquids - B2
Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
				UN GHS: Flam. Liq. 3; Acute Tox. 5 (Orl); Acute Tox. 4	

Xylene	**CAS:**1330-20-7 **EC Number:**215-535-7 **EU Index:**601-022-00-9	20% TO 50%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	(Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B; STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.; Asp. Tox. 2; Aquatic Acute 2 **EU DSD/DPD:** Annex VI, Table 3.2: R10; Xn, R20/21; Xi, R38 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315 **OSHA HCS 2012:** Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.	NDA
1-Methoxy-2-propanol acetate	**CAS:**108-65-6 **EC Number:**203-603-9 **EU Index:**607-195-00-7	10% TO 20%	Ingestion/Oral-Rat LD50 • 8532 mg/kg Skin-Rabbit LD50 • >5 g/kg	**UN GHS:** Not Classified **EU DSD/DPD:** Annex VI, Table 3.2: R10 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 3, H226 **OSHA HCS 2012:** Not Classified	NDA
Titanium dioxide	**CAS:**13463-67-7 **EC Number:**236-675-5	5% TO 10%	NDA	**UN GHS:** Skin Irrit. 3; Muta. 2; Carc. 2; STOT RE 2 (Lungs); Aquatic Chronic 4 **EU DSD/DPD:** Mut. Cat. 3, Xn, R68; Carc. Cat. 3, Xn, R40-48/20 **EU CLP:** Muta. 2, H341; Carc. 2, H351; STOT RE 2 (Lungs), H373 **OSHA HCS 2012:** Skin Irrit. 3; Muta. 2; Carc. 2; STOT RE 2 (Lungs); Aquatic Chronic 4	NDA
Ethylbenzene	**CAS:**100-41-4 **EC Number:**202-849-4 **EU Index:**601-023-00-4	5% TO 10%	Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m³ 2 Hour(s) Skin-Rabbit LD50 • >5000 mg/kg	**UN GHS:** Flam. Liq. 2; Acute Tox. 5 (Orl); Acute Tox. 4 (Inhl); Skin Irrit. 3; Eye Irrit. 2; Carc. 2 (Inhl); Repr. 2 (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl); STOT RE 2 (Ear, Inhl); Asp. Tox. 1; Aquatic Acute 2; **EU DSD/DPD:** Annex VI, Table 3.2: F; R11 Xn; R20-48/20-65 **EU CLP:** Annex VI, Table 3.1: Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373 (Hearing Organs, Inhl); Asp. Tox. 1, H304 **OSHA HCS 2012:** Flam. Liq. 2; Acute Tox. 4 (Inhl); Eye Irrit. 2; Carc. 2 (Inhl); Repr. 2 (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit. (Inhl); STOT RE 2 (Ear, Inhl); Asp. Tox. 1	NDA
C.I. Pigment Blue 15	**CAS:**147-14-8 **EC Number:**205-685-1	1% TO 5%	NDA	**UN GHS:** Not Classified **EU DSD/DPD:** Not Classified **EU CLP:** Not Classified **OSHA HCS 2012:** Not Classified	NDA

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

Ingestion
- Do NOT induce vomiting. Give victim a glass of water or milk. Never give anything by

mouth to an unconscious person. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- LARGE FIRES: Water spray, fog or alcohol-resistant foam.
  SMALL FIRES: Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Containers may explode when heated.
  Vapor explosion hazard indoors, outdoors or in sewers.
  HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
  Many liquids are lighter than water.
  Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
  Runoff to sewer may create fire or explosion hazard.
  Vapors may form explosive mixtures with air.
  Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

- Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection.
  Wear positive pressure self-contained breathing apparatus (SCBA).
  Move containers from fire area if you can do it without risk.
  LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Ventilate the area. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist, vapors, and spray. Avoid contact with skin, eyes, and clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Stay upwind. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
  Absorb or cover with dry earth, sand or other non-combustible material and transfer to

containers.
Use clean non-sparking tools to collect absorbed material.
A vapor suppressing foam may be used to reduce vapors.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.
LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Use only in well ventilated areas. Keep away from heat and ignition sources. All equipment used when handling the product must be grounded. Take precautionary measures against static charges. Do not use sparking tools. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapors, and spray. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke during work. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a tightly closed container. Store indoors in a cool, dry place under ambient conditions. Do not expose to direct sunlight. Ground containers of 5 gallons or larger.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines				
	Result	**ACGIH**	**NIOSH**	**OSHA**
C.I. Pigment Blue 15	TWAs	1 mg/m3 TWA (dust and mist, as Cu) *as Copper compounds*	1 mg/m3 TWA (dust and mist, as Cu) *as Copper compounds*	Not established
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA
	STELs	Not established	125 ppm STEL; 545 mg/m3 STEL	Not established
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	Not established	15 mg/m3 TWA (total dust)
Xylene (1330-20-7)	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m3 TWA
	STELs	150 ppm STEL	Not established	Not established

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process 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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

limits are exceeded or symptoms are experienced.

Eye/Face	• Wear safety goggles.
Skin/Body	• Wear appropriate gloves. Wear long sleeves and/or protective coveralls.
Environmental Exposure Controls	• Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene
NIOSH = National Institute of Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Grey or blue liquid paint with paint solvent odor.
Color	Grey or blue.	Odor	Paint solvent.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	277 F(136.1111 C)	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.059 Water=1	Water Solubility	Moderately soluble 1 to 10 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Vol.)	575 g/L
Flammability			
Flash Point	22 C(71.6 F)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Keep away from heat, sparks and flame.

10.5 Incompatible materials

- Strong bases or oxidants.

10.6 Hazardous decomposition products

- Oxides of carbon. Formaldehyde in oxygen-deficient environments.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Ethylbenzene (5% TO 10%)	100-41-4	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 3500 mg/kg; Inhalation-Guinea Pig LCLo • 2500 ppm 8 Hour(s); *Behavioral*:**Coma**; Inhalation-Human TCLo • 21700 mg/m³; *Behavioral*:**Antipsychotic**; Inhalation-Mouse TCLo • 600 ppm 6 Minute(s); *Lungs, Thorax, or Respiration*:**Respiratory depression**; Skin-Rabbit LD50 • 17800 µL/kg; **Irritation:** Eye-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 15 mg 24 Hour(s)-Open • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 550 ppm 8 Hour(s) 5 Day(s)-Intermittent; *Sense Organs and Special Senses:Ear*:**Change in acuity**; *Sense Organs and Special Senses:Ear*:**Changes in cochlear structure or function**; Inhalation-Rat TDLo • 200 ppm 13 Week(s)-Intermittent; *Sense Organs and Special Senses:Ear*:**Changes in cochlear structure or function**; **Mutagen:** Specific locus test • Intraperitoneal-Mouse • 754 µmol/L; Micronucleus test • Unreported Route-Hamster • Embryo (Somatic cell) • 25 mg/L; Sister chromatid exchange • Unreported Route-Human • Lymphocyte (Somatic cell) • 10 mmol/L; Mutation in Mammalian Somatic Cells • Unreported Route-Mouse • Lymphocyte (Somatic cell) • 80 mg/L; **Reproductive:** Inhalation-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); *Reproductive Effects:Effects on Fertility*:**Abortion**; Inhalation-Rat TCLo • 96 ppm 7 Hour(s)(1-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; Inhalation-Rat TCLo • 1000 ppm (6-20D preg); *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except death, e.g., stunted fetus)**; Inhalation-Rat TCLo • 600 mg/m³ 24 Hour(s)(7-15D preg); *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetal death**; *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; **Tumorigen / Carcinogen:** Inhalation-Mouse TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Bronchiogenic carcinoma**; *Liver*:**Tumors**; Inhalation-Rat TCLo • 750 ppm 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Kidney, Ureter, and Bladder*:**Tumors**; Inhalation-Rat TCLo • 23400 mg/kg 104 Week(s)-Intermittent; *Tumorigenic*:**Equivocal tumorigenic agent by RTECS criteria**; *Kidney, Ureter, and Bladder*:**Kidney tumors**; *Reproductive Effects:Tumorigenic Effects*:**Testicular tumors**
Titanium dioxide (5% TO 10%)	13463-67-7	**Irritation:** Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; **Multi-dose Toxicity:** Inhalation-Rat TCLo • 10 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Fibrosis (interstitial)**; *Lungs, Thorax, or Respiration*:**Other changes**; *Biochemical:Metabolism (intermediary)*:**Effect on inflammation or mediation of inflammation**; Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 4 Week(s)-Intermittent; *Lungs, Thorax, or Respiration*:**Chronic pulmonary edema**; *Lungs, Thorax, or Respiration*:**Other changes**; **Mutagen:** Cytogenetic analysis • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; Micronucleus test • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; DNA damage • Ingestion/Oral-Mouse • 280 mg/kg 7 Day(s)-Intermittent; **Tumorigen / Carcinogen:** Inhalation-Rat • 10 mg/m³ 18 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Tumors**; Inhalation-Rat TCLo • 250 mg/m³ 6 Hour(s) 2 Year(s)-Intermittent; *Tumorigenic*:**Carcinogenic by RTECS criteria**; *Lungs, Thorax, or Respiration*:**Tumors**
Xylene (20% TO 50%)	1330-20-7	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 4300 mg/kg; *Liver*:**Other changes**; *Kidney, Ureter, and Bladder*:**Other changes**; Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LCLo • 10000 ppm 6 Hour(s); *Behavioral*:**General anesthetic**; *Lungs, Thorax, or Respiration*:**Cyanosis**; *Blood*:**Other changes**; Inhalation-Human TCLo • 200 ppm; *Sense Organs and Special Senses:Olfaction*:**Other changes**; *Sense Organs and Special Senses:Eye*:**Conjunctive irritation**; *Lungs, Thorax, or Respiration*:**Other changes**; Skin-Rabbit LD50 • >1700 mg/kg; **Irritation:** Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; **Reproductive:** Inhalation-Rabbit TCLo • 1 g/m³ 24 Hour(s)(7-20D preg); *Reproductive Effects:Effects on Fertility*:**Abortion**; Inhalation-Rat TCLo • 50 mg/m³ 6 Hour(s)(1-21D preg); *Reproductive Effects:Effects on Fertility*:**Post-implantation mortality**; *Reproductive Effects:Effects on Embryo or Fetus*:**Fetotoxicity (except**

		death, e.g., stunted fetus); *Reproductive Effects:Specific Developmental Abnormalities*:**Craniofacial (including nose and tongue)**; Inhalation-Rat TDLo • 200 ppm 6 Hour(s)(4-20D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Musculoskeletal system**; *Reproductive Effects:Effects on Newborn*:**Behavioral**
1-Methoxy-2-propanol acetate (10% TO 20%)	108-65-6	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 8532 mg/kg; Skin-Rabbit LD50 • >5 g/kg

GHS Properties	Classification
Respiratory sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Serious eye damage/Irritation	**EU/CLP** • Data lacking **OSHA HCS 2012** • Eye Irritation 2 **UN GHS** • Eye Irritation 2
Acute toxicity	**EU/CLP** • Acute Toxicity - Dermal 4 - ATEmix (dermal) = 1870 mg/kg; Acute Toxicity - Inhalation 4 - ATEmix (inhl, vapors) = 12.68 mg/L **OSHA HCS 2012** • Acute Toxicity - Inhalation 4 - ATEmix (inhl, vapors) = 12.68 mg/L **UN GHS** • Acute Toxicity - Inhalation 4
Aspiration Hazard	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
Carcinogenicity	**EU/CLP** • Carcinogenicity 2 **OSHA HCS 2012** • Carcinogenicity 2 **UN GHS** • Carcinogenicity 2
Skin corrosion/Irritation	**EU/CLP** • Skin Irritation 2 **OSHA HCS 2012** • Skin Irritation 2 **UN GHS** • Skin Irritation 2
Skin sensitization	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking **UN GHS** • Data lacking
STOT-RE	**EU/CLP** • Specific Target Organ Toxicity Repeated Exposure 2 **OSHA HCS 2012** • Specific Target Organ Toxicity Repeated Exposure 2 **UN GHS** • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation **UN GHS** • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	**EU/CLP** • Data lacking **OSHA HCS 2012** • Toxic to Reproduction 1B **UN GHS** • Toxic to Reproduction 1B
Germ Cell Mutagenicity	**EU/CLP** • Germ Cell Mutagenicity 2 **OSHA HCS 2012** • Germ Cell Mutagenicity 2 **UN GHS** • Germ Cell Mutagenicity 2

Potential Health Effects

Inhalation

Acute (Immediate)

- Harmful if inhaled. May cause respiratory irritation. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)
- No data available

Skin

Acute (Immediate)
- Harmful in contact with skin. Causes skin irritation.

Chronic (Delayed)
- No data available.

Eye

Acute (Immediate)
- Causes serious eye irritation.

Chronic (Delayed)
- No data available.

Ingestion

Acute (Immediate)
- Irritating to mouth, throat and stomach, with nausea.

Chronic (Delayed)
- No data available.

Other

Chronic (Delayed)
- Exposure to Ethenylbenzene, a component of this material, may enhance hearing damage caused by exposure to noise.

Mutagenic Effects
- Repeated and prolonged exposure may cause mutagenic effects.

Carcinogenic Effects
- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects		
	CAS	IARC
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen

Reproductive Effects
- Repeated and prolonged exposure may cause reproductive effects.

Key to abbreviations

LC = Lethal Concentration
LD = Lethal Dose
TC = Toxic Concentration
TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity
- Material data lacking.

12.2 Persistence and degradability
- Material data lacking.

12.3 Bioaccumulative potential
- Material data lacking.

12.4 Mobility in Soil
- Material data lacking.

12.5 Results of PBT and vPvB assessment
- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1263	Paint	3	II	NDA
TDG	UN1263	PAINT	3	II	NDA
IATA/ICAO	UN1263	Paint	3	II	NDA

14.6 Special precautions for user
- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
- Acute, Chronic, Fire

Inventory						
Component	**CAS**	**Canada DSL**	**Canada NDSL**	**EU EINECS**	**EU ELNICS**	**TSCA**
1-Methoxy-2-propanol acetate	108-65-6	Yes	No	Yes	No	Yes
C.I. Pigment Blue 15	147-14-8	Yes	No	Yes	No	Yes
Ethylbenzene	100-41-4	Yes	No	Yes	No	Yes
Titanium dioxide	13463-67-7	Yes	No	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Ethylbenzene	100-41-4	B2, D2A, D2B
• Titanium dioxide	13463-67-7	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
• Xylene	1330-20-7	B2, D2A, D2B
• 1-Methoxy-2-propanol acetate	108-65-6	B3
• C.I. Pigment Blue 15	147-14-8	Uncontrolled product according to WHMIS

		classification criteria

Canada - WHMIS - Ingredient Disclosure List

• Ethylbenzene	100-41-4	0.1 %
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	(isomers and mixtures)
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Ethylbenzene	100-41-4	Not Listed

• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	1.0 % de minimis concentration
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)		
• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Ethylbenzene	100-41-4	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Xylene	1330-20-7	Not Listed
• 1-Methoxy-2-propanol acetate	108-65-6	Not Listed
• C.I. Pigment Blue 15	147-14-8	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H226 - Flammable liquid and vapour
  H304 - May be fatal if swallowed and enters airways
  R10 - Flammable.
  R20 - Harmful by inhalation.
  R65 - Harmful: may cause lung damage if swallowed.

Revision Date

- 30/September/2015

Preparation Date

- 08/April/2010

Disclaimer/Statement of Liability

- To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Key to abbreviations

NDA = No data available