

# SAFETY DATA SHEET

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## SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

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**Product ID:** 0377-XXXX-0013  
**Product Name:** METAL ENAMEL, AEROSOL - GENERAL FORMULA  
**Revision Date:** Mar 05, 2018 **Date Printed:** Mar 05, 2018  
**Version:** 1.0 **Supersedes Date:** N.A.  
**Manufacturer's Name:** TOUCH-UP SOLUTIONS  
**Address:** 4372 Providence Mill Rd Maiden, NC, US, 28650  
**Emergency Phone:** 1-800-535-5053 | International : 1-352-323-3500  
**Information Phone Number:** 1-828-428-9094  
**Fax:** 1-828-428-9970  
**Product/Recommended Uses:** Touch up and repair

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## SECTION 2) HAZARDS IDENTIFICATION

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### Classification

Specific Target Organ Toxicity - Single Exposure - Category 1  
Acute toxicity Inhalation - Category 4  
Acute toxicity Inhalation - Category 4  
Aerosols Category 1  
Carcinogenicity - Category 1B  
Chronic aquatic toxicity - Category 3  
Eye Irritation - Category 2A  
Gases Under Pressure Liquefied Gas  
Germ Cell Mutagenicity - Category 1B  
Skin Irritation - Category 2  
Specific Target Organ Toxicity - Repeated Exposure - Category 1  
Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

### 2.1 Classification

#### Pictograms



#### Signal Word

Danger

#### Hazardous Statements - Physical

Extremely flammable aerosol  
Pressurised container: May burst if heated  
Contains gas under pressure; may explode if heated

#### Hazardous Statements - Health

Harmful if inhaled  
May cause cancer.

Causes serious eye irritation  
May cause genetic defects.  
Causes skin irritation  
Causes damage to organs through prolonged or repeated exposure.  
May cause drowsiness or dizziness

#### **Hazardous Statements - Environmental**

Harmful to aquatic life with long lasting effects

#### **Precautionary Statements - General**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.  
Do not pierce or burn, even after use.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid release to the environment.  
Wash with water and soap thoroughly after handling.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Do not eat, drink or smoke when using this product.  
Keep container tightly closed.

#### **Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor if you feel unwell.  
IF exposed or concerned: 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 ON SKIN: Wash with plenty of water.  
Specific treatment (see First-aid on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing. And wash it before reuse.  
Get Medical advice/attention if you feel unwell.

#### **Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Store locked up.  
Protect from sunlight. Store in a well-ventilated place.  
Store in a well-ventilated place. Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to disposal recycling center.  
Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

**Acute toxicity of less than one percent of the mixture is unknown**

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**SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS**

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<b>CAS</b>	<b>Chemical Name</b>	<b>% By Weight</b>
0001330-20-7	XYLENE	24.35%
0013463-67-7	TITANIUM DIOXIDE	20.62%
0000108-88-3	TOLUENE	9.03%
0000067-64-1	ACETONE	8.96%
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	5.35%
0008052-41-3	STODDARD SOLVENT	4.42%
0000075-28-5	ISOBUTANE	3.63%
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	2.36%
0000074-98-6	PROPANE	1.70%
0000100-41-4	ETHYLBENZENE	1.38%
0007631-86-9	SILICA, AMORPHOUS	0.74%
0021645-51-2	ALUMINUM HYDROXIDE	0.74%
0000095-63-6	1,2,4-TRIMETHYLBENZENE	0.68%
NA-DegussaCorp	NJSTR 56705700001-5384P	0.59%
0000108-67-8	MESITYLENE	0.45%
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	0.36%
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	0.33%
0064742-94-5	AROMATIC HYDROCARBON MIXTURE >C9	0.31%
0064742-88-7	MEDIUM MINERAL SPIRITS	0.22%
0008002-09-3	PINE OIL	0.21%
0000107-98-2	PROPYLENE GLYCOL MONOMETHYL ETHER	0.16%
0000100-42-5	STYRENE	0.09%
0000098-82-8	CUMENE	0.08%
0000091-20-3	NAPHTHALENE	0.05%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

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**SECTION 4) FIRST-AID MEASURES**

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**Eye Contact**

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact**

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water for a duration of 15-20 minutes. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

**Ingestion**

Rinse mouth. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

**Inhalation**

Take precautions to ensure your own safety (e.g. wear appropriate protective equipment). Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.

**Important symptoms and effects, both acute and chronic**

High concentrations of this product may lead to central nervous system effects (drowsiness, nausea, headaches, paralysis, loss of consciousness and even death). High vapor concentrations are irritating to the eyes, nose, throat, and lungs.

**Indication of any immediate medical attention and special treatment needed**

No data available.

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**SECTION 5) FIRE-FIGHTING MEASURES**

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### Unsuitable Extinguishing Media

Do not use water jet.

### Special hazards in case of fire

Flammable Liquid. Can release vapors that form explosive mixtures at temperature at or above the flash point.

Flammable components of this material may be lighter than water and burn while floating on the surface.

Vapors may be ignited by heat, sparks, flames, or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide, Toxic gases, Hydrogen cyanide, & Nitrogen containing gases.

### Suitable Extinguishing Media

Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

### Fire-Fighting Procedures

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

### Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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## SECTION 6) ACCIDENTAL RELEASE MEASURES

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### Emergency Procedure

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

### Personal Precautions

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### Methods and Materials for Containment and Cleaning Up

Cover spills with suitable inert absorbent like granulated clay and place in sealed chemical waste containers.

### Recommended Equipment

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

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## SECTION 7) HANDLING AND STORAGE

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### General

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not expose containers to heat, sparks, flame or other sources of ignition.

Ground and bond containers when transferring materials. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

**SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Eye Protection**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**Skin Protection**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

**Respiratory Protection**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

**Appropriate Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA Carcinogen	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Tables (Z1, Z2, Z3)	OSHA Skin designation	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
1,2,4-TRIMETHYLBENZENE								125	25			
ACETONE	2400	1000				1		590	250			
ALIPHATIC, LIGHT HYDROCARBON SOLVENT	2000	500				1						
AROMATIC HYDROCARBON MIXTURE >C9	2000	500				1						
CUMENE	245	50				1	1	245	50			
ETHYLBENZENE	435	100				1		435	100	545	125	
ETHYLENE GLYCOL MONOBUTYL ETHER	240	50				1	1	24	5			
ISOBUTANE								1900	800			
MESITYLENE								125	25			
NAPHTHALENE	50	10				1		50	10	75	15	
PROPANE	1800	1000				1		1800	1000			

PROPYLENE GLYCOL MONOMETHYL ETHER							360	100	540	150	
SILICA, AMORPHOUS	80 mg/m3 percent SiO2+2	20 (b)				1,3	6				
STODDARD SOLVENT	2900	500				1	350				
STYRENE		100 (a)/200 ceiling			600 (a) /5 mins. in any 3 hrs.	1,2	215	50	425	100	
TITANIUM DIOXIDE	15					1		b			1
TOLUENE	0.2	200 (a)/300 ceiling			500ppm /10 minutes (a)	1,2	375	100	560	150	
XYLENE	435	100				1	435	100	655	150	

Chemical Name	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations
1,2,4-TRIMETHYLBENZENE							
ACETONE		250		500	A4	CNS impair; URT & eye irr	A4; BEI
ALIPHATIC, LIGHT HYDROCARBON SOLVENT							
AROMATIC HYDROCARBON MIXTURE >C9							
CUMENE	246	50				Eye, skin, & URT irr; CNS impair	
ETHYLBENZENE		20			A3	URT irr; Kidney dam (nephropathy); Cochlear impair	A3; BEI
ETHYLENE GLYCOL MONOBUTYL ETHER	97	20			A3	Eye & URT irr	A3; BEI
ISOBUTANE		1000				CNS impair	
MESITYLENE							
NAPHTHALENE		10			A3	URT irr; cataracts; hemolytic anemia	Skin; A3
PROPANE		See Appendix F: Minimal Oxygen Content				Card sens; CNS impair	
PROPYLENE GLYCOL MONOMETHYL ETHER		50		100	A4	Eye & URT irr	A4
SILICA, AMORPHOUS							
STODDARD SOLVENT	572	100				Eye, skin, & kidney dam; nausea;	

						CNS impair	
STYRENE	85	20	170	40	A4	CNS impair; URT irr; peripheral neuropathy	A4; BEI
TITANIUM DIOXIDE	10				A4	LRT irr	A4
TOLUENE	0.2	20			A4	Visual impair; female repro; pregnancy loss	A4; BEI
XYLENE	434	100	651	150	A4	URT & eye irr; CNS imapir	A4; BEI

(C) - Ceiling limit, (R) - Respirable fraction, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, A4 - Not Classifiable as a Human Carcinogen, BEI - Substances for which there is a Biological Exposure Index or Indices, card - cardiac, CNS - Central nervous system, dam - Damage, impair - Impairment, irr - Irritation, LRT - Lower respiratory tract, repro - reproductive, sens - sensitization, URT - Upper respiratory tract

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## SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

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### Summary

See below

### Physical and Chemical Properties

% Solids by Vol	
Density	3.80 lb/gal
Density HAPS	1.32 lb/gal
Density VHAPS	1.32 lb/gal
Density VOC	1.42 lb/gal
Ib HAPS/gal Solid	lb/gal
Ib HAPS/lb Solid	2.89 lb/lb
Ib VHAPS/gal Solid	lb/gal
Ib VHAPS/lb Solid	2.89 lb/lb
Ib VOC/gal Solid	lb/gal
Ib VOC/lb Solid	3.10 lb/lb
Specific Gravity	0.46
% HAPS	34.83%
% Solids By Weight	12.06%
% VHAPS	34.83%
% VOC	37.42%

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Appearance	N/A
Odor Description	Viscous liquid with an odr characteristic of the solvents listed in Section 2.
Odor Threshold	N/A
Flammability	N/A
Flash Point Symbol	N/A
Flash Point	156 °F
Lower Explosion Level	2.2
Upper Explosion Level	12.8
Low Boiling Point	N/A
High Boiling Point	N/A
Meltina Point	N/A

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Freezing Point	N/A
Vapor Density (Air =1)	N/A
Vapor Pressure	N/A
pH	N/A
Water Solubility	N/A
Viscosity	N/A
Evaporation Rate	N/A
Decomposition Pt	N/A
Coefficient Water/Oil	N/A
Auto Ignition Temp	N/A

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## SECTION 10) STABILITY AND REACTIVITY

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### Hazardous decomposition products

Oxides of carbon, hydrogen cyanide, nitrogen containing gases.

### Conditions to avoid

Avoid flame, spark, heat and contact with incompatible materials.

### Stability

Stable in normal conditions

### Incompatible Materials

Strong acids, alkalies and amines.

Strong oxidizing agents. Acetone may form explosive mixtures with chromic anhydride, chromyl alcohol, hexachloromelamine, hydrogen peroxide, peroxymonosulfuric acid, potassium tert-butoxide, and thioglycol.

### Hazardous reactions/polymerization

Will not occur.

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## SECTION 11) TOXICOLOGICAL INFORMATION

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### Likely route of exposure

Inhalation, Ingestion, Skin contact, Eye contact.

### Skin Corrosion/Irritation

Can be absorbed through the skin but exposure must be extensive before adverse health effects occur.

Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin dermatitis and irritation.

Causes skin irritation

### Serious Eye Damage/Irritation

Causes serious eye irritation

### Carcinogenicity

May cause cancer.

### Germ Cell Mutagenicity

May cause genetic defects.

### Reproductive Toxicity

No Data Available

### Respiratory/Skin Sensitization

No Data Available

### Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

### Specific Target Organ Toxicity - Repeated Exposure



Causes damage to organs through prolonged or repeated exposure.

## Aspiration Hazard

No Data Available

## Acute Toxicity

Ingestion of this product may cause central nervous system effects, which may include dizziness, loss of balance/coordination, unconsciousness, coma, and even death.

Harmful if inhaled

## Potential Health Effects - Miscellaneous

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

0000091-20-3 NAPHTHALENE

Is an IARC, NTP or OSHA carcinogen. Tests in some laboratory animals demonstrate carcinogenic activity. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys, liver. Recurrent overexposure may result in liver and kidney injury. WARNING: This chemical is known to the State of California to cause cancer.

0000100-41-4 ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

0000108-65-6 PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

Recurrent overexposure may result in liver and kidney injury.

0000108-88-3 TOLUENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

0001330-20-7 XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

0013463-67-7 TITANIUM DIOXIDE

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

0064742-88-7 MEDIUM MINERAL SPIRITS

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, lungs, reproductive system, skin. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0064742-89-8 ALIPHATIC, LIGHT HYDROCARBON SOLVENT

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

0064742-95-6 AROMATIC HYDROCARBON MIXTURE >C9

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

## Chronic Exposure

0000098-82-8 CUMENE

TERATOGENIC EFFECTS: Cumene has been Classified as POSSIBLE for humans.

0000100-41-4 ETHYLBENZENE

CARCINOGENIC EFFECTS: Ethyl Benzene has been listed by IARC as Group 2B, Possibly Carcinogenic to Humans.

TERATOGENIC EFFECTS: Ethyl Benzene has been Classified as POSSIBLE for humans.

0000108-88-3 TOLUENE

TERATOGENIC EFFECTS: Toluene has been Classified as POSSIBLE for humans.

0001330-20-7 XYLENE

High exposure to Xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus.

Xylene in high concentrations has caused embryotoxic effects in laboratory animals.

0000067-64-1 ACETONE

LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m<sup>3</sup> (4-hour exposure) (29)

LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m<sup>3</sup> (4-hour exposure) (29)

LD50 (oral, female rat): 5800 mg/kg (24)

LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)

LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)

LD50 (oral, mouse): 3000 mg/kg (32, unconfirmed)

LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg (30)

0000075-28-5 ISOBUTANE

LC50 (mouse, inhalation): 520,000 ppm (52%); 2-hour exposure. (4)

0000091-20-3 NAPHTHALENE

LC50: Insufficient data

LD50 (oral, mouse): 533 mg/kg (male); 710 mg/kg (female) (1)

LD50 (oral, rat): 1780 mg/kg (2)

0000095-63-6 1,2,4-TRIMETHYLBENZENE

LC50 (rat): 18 g/m<sup>3</sup> (4-hour exposure) (1)

LD50 (oral, rat): 5 g/kg (1)

0000098-82-8 CUMENE

LC50 (inhalation, mouse): 10 mg/L; (2000 ppm); 7-hr exposure (1,3)

LC50 (inhalation, rat): 39 mg/L (8000 ppm); 4-hr exposure (1,3,6)

LD50 (oral, rat): Reported as 1.4 g/kg and 2.26 g/kg (1,3,4)

LD50 (skin, rabbit): 10627 mg/kg (4)

0000100-41-4 ETHYLBENZENE

LC50 (inhalation, rat): 4000 ppm; 4-hour exposure (3)

LD50 (oral, rat): 3.5 g/kg (1,3,5,10)

LD50 (oral, rat): 4.72 g/kg (3,5,7,8)

LD50 (dermal, rabbit): 17.8 g/kg (11)

0000100-42-5 STYRENE

LC50 (rat): 5640 ppm (24000 mg/m<sup>3</sup>) (4-hour exposure; unconfirmed) (1); 2800 ppm (4-hour exposure) (26)

LC50 (mouse): 2230 ppm (9500 mg/m<sup>3</sup>) (4-hour exposure; unconfirmed) (1); 5000 ppm (2-hour exposure) (26)

LD50 (oral, rat): 5000 mg/kg (2)

LD50 (oral, mouse): 316 mg/kg (unconfirmed) (1)

0000107-98-2 PROPYLENE GLYCOL MONOMETHYL ETHER

LC50 (rat): 15000 ppm; 4-hr exposure (2)

LC50 (guinea pig): 15000 ppm; 10-hr exposure (2)

LD50 (oral, rat): 6.6 g/kg (5.2-7.5 g/kg) (10)

LD50 (oral, mouse): 10.7-10.8 g/kg (2,12)

LD50 (oral, dog): 4.6-5.5 g/kg (2); approximately 9.2 g/kg (2)

LD50 (oral, rabbit): 5.2-5.3 g/kg (2,12)

LD50 (dermal, rabbit): 13-14 g/kg (10)

0000108-67-8 MESITYLENE

LC50 (rat): 24 g/m<sup>3</sup> (4-hour exposure) (2)

0000108-88-3 TOLUENE

LC50 (rat): 8800 ppm (4-hour exposure) (2)  
LC50 (rat): 6000 ppm (6-hour exposure) (3)  
LD50 (oral, rat): 2600 to 7500 mg/kg (3,5,11,17)  
LD50 (oral, neonatal rat): less than 870 mg/kg (3)  
LD50 (dermal, rabbit): 12,225 mg/kg (reported as 14.1 ml/kg) (1)

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)  
LC50 (male rat): 486 ppm (4-hour exposure) (2)  
LD50 (oral, male weanling rat): 3000 mg/kg (1)  
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)  
LD50 (oral, yearling male rat): 560 mg/kg (1)  
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1)LD50 (oral, male mouse): 1230 mg/kg (1)  
LD50 (oral, rabbit): 320 mg/kg (1)  
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

0001330-20-7 XYLENE

LC50 (rat): 6350 ppm (4-hour exposure) (unspecified isomers and ethylbenzene) (1)LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene) (2) ethylbenzene) (1)  
LC50 (rat): 6700 ppm (4-hour exposure) (65% m-xylene, 7.6% o-xylene, 7.8% p-xylene, 19.3% ethylbenzene)(2)  
LD50 (oral, rat): 5400 mg/kg (52% m-, 19% o-, 24% p-) (1)LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)  
LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)  
LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)  
LD50 (oral, female mouse): 5251 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)  
LD50 (oral, male mouse): 5627 mg/kg (60.2% m-, 9.1% o-, 14.6% p-, 17.0% ethylbenzene) (4)  
LD50 (dermal, rabbit): 12180 mg/kg (m-xylene); greater than 1700 mg/kg (mixed xylenes - undefined composition) (3)

0008052-41-3 STODDARD SOLVENT

LC50 (rat): greater than 5500 mg/m3 (880 ppm) (whole body exposure for 4 hours) (1)  
LC50 (rat): greater than 8200 mg/m3 (1300 ppm) (2)  
LD50 (oral, rat): greater than 5 g/kg (1)  
LD50 (dermal, rabbit): greater than 3 g/kg (1)

0064742-94-5 AROMATIC HYDROCARBON MIXTURE >C9

LC50 (Rodent - rat, Inhalation) : >590 mg/m3 (4 hour exposure) Toxic effects : Details of toxic effects not reported other than lethal dose value.  
LD50 (Rodent - rabbit, Administration onto the skin) : >2 mL/kg ,Toxic effects : Behavioral - somnolence (general depressed activity) Behavioral - changes in motor activity (specific assay) Behavioral - irritability

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## SECTION 12) ECOLOGICAL INFORMATION

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### Toxicity

Harmful to aquatic life with long lasting effects

### Bio-accumulative Potential

0000067-64-1 ACETONE

Does not bioaccumulate

### Persistence and Degradability

0000067-64-1 ACETONE

91% readily biodegradable, Method: OECD Test Guideline 301B

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## SECTION 13) DISPOSAL CONSIDERATIONS

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### Waste Disposal

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for

any other purposes.

## SECTION 14) TRANSPORT INFORMATION

### U.S. DOT Information

See 49CFR 172.101 for Special Provisions, Packaging, and QTY Limitations.

Paint, 3, UN 1263, PG II, ERG GUIDE 128

### IMDG Information

Paint, 3, UN 1263, PG II, ERG GUIDE 128

Marine Pollutant: No data available.

### IATA Information

Paint, 3, UN 1263, PG II, ERG GUIDE 128

### TRANSPORT INFORMATION

DOT Compressed Gas, Flammable, N.O.S., 2.1, UN 1950 ( CONTAINS )

\* See 49CFR 172.101 for Special Provisions, Packaging, and QTY Limitations.

## SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
0001330-20-7	XYLENE	24.35%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA,CA_TAC_TOX
0013463-67-7	TITANIUM DIOXIDE	20.62%	SARA312,IARCCarcinogen,TSCA,CA_Carcinogen
0000108-88-3	TOLUENE	9.03%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA,CA_TAC_TOX,CA_TOX
0000067-64-1	ACETONE	8.96%	SARA312,TSCA
0064742-89-8	ALIPHATIC, LIGHT HYDROCARBON SOLVENT	5.35%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0008052-41-3	STODDARD SOLVENT	4.42%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0000075-28-5	ISOBUTANE	3.63%	SARA312,VOC,TSCA
0000108-65-6	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	2.36%	SARA312,VOC,TSCA,CA_TOX
0000074-98-6	PROPANE	1.70%	SARA312,VOC,TSCA
0000100-41-4	ETHYLBENZENE	1.38%	SARA313, SARA312,VOC,IARCCarcinogen,TSCA,CA_TAC_TOX,CA_TOX,CA_Carcinogen
0007631-86-9	SILICA, AMORPHOUS	0.74%	SARA312,IARCCarcinogen,TSCA
0000095-63-6	1,2,4-TRIMETHYLBENZENE	0.68%	SARA313, SARA312,VOC,TSCA,CA_TOX
0000108-67-8	MESITYLENE	0.45%	SARA312,VOC,TSCA
0064742-95-6	AROMATIC HYDROCARBON MIXTURE >C9	0.36%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0000111-76-2	ETHYLENE GLYCOL MONOBUTYL ETHER	0.33%	SARA313, SARA312,VOC,TSCA,CA_TAC_TOX,CA_TAC_Carcinogen,CA_TOX
0064742-88-7	MEDIUM MINERAL SPIRITS	0.22%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS
0008002-09-3	PINE OIL	0.21%	SARA312,VOC,TSCA,TSCA_UVCB - CHEMICAL SUBSTANCES OF UNKNOWN OR VARIABLE COMPOSITION, COMPLEX REACTION PRODUCTS AND BIOLOGICAL MATERIALS

0000107-98-2	PROPYLENE GLYCOL MONOMETHYL ETHER	0.16%	SARA312,VOC,TSCA,CA_TOX
0000100-42-5	STYRENE	0.09%	SARA313, SARA312,VOC,IARCcarcinogen,NTP_Carcinogen - National Toxicology Program Carcinogens,TSCA,CA_TAC_TOX,CA_TAC_Carcinogen,CA_TOX
0000098-82-8	CUMENE	0.08%	SARA313, SARA312,VOC,NTP_Carcinogen - National Toxicology Program Carcinogens,TSCA,CA_TAC_TOX,CA_TOX,CA_Carcinogen
0000091-20-3	NAPHTHALENE	0.05%	SARA313, SARA312,VOC,NTP_Carcinogen - National Toxicology Program Carcinogens,TSCA,CA_TAC_TOX,CA_TOX,CA_Carcinogen

## SECTION 16) OTHER INFORMATION

### OTHER

Part 1: The information contained in this MSDS was obtained from current and reliable sources, however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy.

Part 2: Since the conditions or handling, storage and disposal of this product are beyond the control of Touch-Up Solutions LLC. Touch-Up Solutions LLC will not be responsible for loss, injury, or expense arising out of the products improper use.

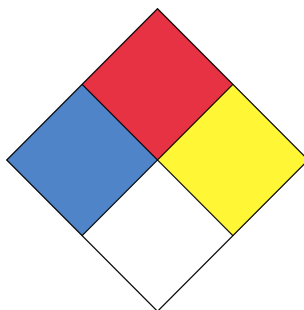
Part 3: No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS.

Part 4: Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

### HMIS

Health	/ 2
FLAMMABILITY	4
Physical Hazard	0
Personal Protection	B

### NFPA



(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

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