

# Material Safety Data Sheet

## Section 1. Product Identification and Use

Product Name - Trade Name **441-320 PLASTICOLOR® N/Y WHITE 20-25°**

Supplier - Manufacturer **Chemcraft® International Inc.**

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Canada L1A 3Z3

Telephone (905) 885-6388 Fax (905) 885-5097

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### For Transport Emergency or After Hours

CANUTEC (613) 996-6666

Code 441-320

Synonym PLASTICOLOR® N/Y WHITE 20-25°

Chemical Name Not applicable.

Chemical Family Synthetic polymer in organic solvent. (Paint.)

Chemical Formula Not applicable.

Material Uses Coatings: Surface coatings and finishes.

Product Identification Number (PIN) 1263 Paint

## Section 2. Hazardous Ingredients

### Exposure limits

Name	CAS #	% by Weight	LC <sub>50</sub> /LD <sub>50</sub>	TLV/PEL
Xylenes	1330-20-7	5 - 15	ORAL (LD50): Acute: 4300 mg/kg [Rat].	<b>ACGIH (United States, 1992).</b> TWA: 100 ppm STEL: 150 ppm TWA: 434 mg/m <sup>3</sup> STEL: 651 mg/m <sup>3</sup>
Isobutyl alcohol	78-83-1	5 - 15	ORAL (LD50): Acute: 2500 mg/kg [Rat.]. 3200 mg/kg [Mouse]. DERMAL (LD50): Acute: 4200 mg/kg [Rabbit].	<b>ACGIH (United States, 1993).</b> TWA: 50 ppm
Isobutyl acetate	110-19-0	5 - 15	ORAL (LD50): Acute: 4763 mg/kg [Rabbit.]. 3200 mg/kg [Rat].	TWA: 150 ppm
Silica, amorphous	7631-86-9	1 - 5	ORAL (LD50): Acute: 3160 mg/kg [Rat.].	<b>OSHA (United States).</b> TWA: 6 mg/m <sup>3</sup>
Ethylbenzene	100-41-4	1 - 5	ORAL (LD50): Acute: 3500 mg/kg [Rat.]. DERMAL (LD50): Acute: 5000 mg/kg [Rabbit].	<b>ACGIH (United States).</b> TWA: 100 ppm STEL: 125 ppm <b>NIOSH</b> STEL: 125 ppm
Ethyl alcohol	64-17-5	1 - 5	ORAL (LD50): Acute: 7060 mg/kg [Rat.]. VAPOR (LC50): Acute: 8000 mg/l 4 hour/hours [Rat.].	<b>OSHA (United States).</b> TWA: 1000 ppm <b>ACGIH (United States).</b> TWA: 1000 ppm <b>NIOSH</b> TWA: 1000 ppm
Potential additional emission of formaldehyde	50-00-0*	0.1 - 1	ORAL (LD50): Acute: 100 mg/kg [Rat.]. DERMAL (LD50): Acute: 270 mg/kg [Rabbit].	<b>OSHA (United States).</b> STEL: 2 ppm TWA: 0.75 ppm

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Formaldehyde

50-00-0

0.1 - 1

ORAL (LD50): Acute: 100 mg/kg [Rat]. DERMAL (LD50): Acute: 270 mg/kg [Rabbit]. VAPOR (LC50): Acute: 250 mg/l 4 hour/hours [Rat]. 590 mg/l 4 hour/hours [Rat].

**OSHA (United States).**

STEL: 2 ppm 8 hour/hours.

**OSHA PEL (United States, 1995).**

TWA: 0.75 ppm

**OSHA action level (United States).**

TWA: 0.5 ppm 8 hour/hours.

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

### Section 3. Physical Data

<b>Physical State and Appearance</b>	Liquid.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>Taste</b>	Not available.
<b>Molecular Weight</b>	Not applicable.
<b>pH (1% soln/water)</b>	Neutral.
<b>Boiling Point</b>	The lowest known value is 78.5°C (173.3°F) (Ethanol). Weighted average: 120.73°C (249.3°F)
<b>Melting Point</b>	May start to solidify at -94.9°C (-138.8°F) based on data for: Benzene, ethyl-. Weighted average: -104.01°C (-155.2°F)
<b>Critical Temperature</b>	Not available.
<b>Specific Gravity</b>	1.1384 (Water = 1)
<b>Vapor Pressure</b>	The highest known value is 5.7 kPa (43 mm Hg) (at 20°C) (Ethanol). Weighted average: 1.41 kPa (10.58 mm Hg) (at 20°C)
<b>Vapor Density</b>	The highest known value is 4 (Air = 1) (Acetic acid, 2-methylpropyl ester). Weighted average: 3.28 (Air = 1)
<b>Volatility</b>	Not available.
<b>Odor Threshold</b>	The lowest known value is 0.3 ppm (Benzene, dimethyl-) Weighted average: 20.21 ppm
<b>Water/Oil Dist. Coeff.</b>	The product is much more soluble in octanol.
<b>Ionicity (in Water)</b>	Not available.
<b>Dispersion Properties</b>	Not dispersible in cold water, hot water, methanol. See solubility in methanol, diethyl ether, n-octanol, acetone.
<b>Solubility</b>	Easily soluble in methanol, diethyl ether, n-octanol, acetone. Insoluble in cold water, hot water.

### Section 4. Fire and Explosion Hazard

<b>The Product is:</b>	Flammable.
<b>Fire Hazards in Presence of Various Substances</b>	Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Flammable in the presence of the following materials or conditions: heat. Slightly flammable in the presence of the following materials or conditions: oxidizing materials. Non-flammable in the presence of the following materials or conditions: reducing materials, combustible materials and moisture.
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray or fog. Never direct a water jet into the container in order to prevent any splashing of the product, which could cause the fire to spread. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.
<b>Special Remarks on Fire Hazards</b>	Vapor may travel a considerable distance to source of ignition and flash back. (Benzene, dimethyl-)
<b>Flash Points</b>	The lowest known value is Closed cup: 12.78°C (55°F). Open cup: 12.78°C (55°F). (Cleveland). (Ethanol)
<b>Flammable Limits</b>	The greatest known range is Lower: 3.3% Upper: 19% (Ethanol)

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**Auto-Ignition Temperature** The lowest known value is 416°C (780.8°F) (1-Propanol, 2-methyl-).

**Products of Combustion** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub> etc.). Some metallic oxides.

**Explosion Hazards in Presence of Various Substances** Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.

**Special Remarks on Explosion Hazards** Not available.

## Section 5. Reactivity Data

**Stability** The product is stable.

**Decomposition products** Not available.

**Conditions of Instability** Not available.

**Incompatibility with various substances** Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials, organic materials, metals, acids and alkalis.

**Corrosivity** Not available.

**Special Remarks on Reactivity** Incompatible with hydrogen fluoride. (Silica)

**Special Remarks on Corrosivity** Not available.

## Section 6. Toxicological Properties

**Routes of Entry** Dermal contact. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** Acute oral toxicity (LD50): 2500 mg/kg [Rat.]. (1-Propanol, 2-methyl-).  
Acute dermal toxicity (LD50): 4200 mg/kg [Rabbit.]. (1-Propanol, 2-methyl-).  
Acute toxicity of the vapor (LC50): 8000 mg/l 4 hour/hours [Rat.]. (Ethanol).

**Effects of Acute Exposure** Hazardous in case of skin contact (permeator), of ingestion, of inhalation.

**Chronic Effects on Humans** **CARCINOGENIC EFFECTS:** Classified None. by OSHA [Titanium dioxide (TiO<sub>2</sub>)]. Classified 3 (Not classifiable for humans.) by IARC [Titanium dioxide (TiO<sub>2</sub>)]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified 1 (Proven for humans.) by IARC [Potential additional emission of formaldehyde]. Classified A2 (Suspected for humans.) by ACGIH, 2 (Reasonably anticipated to be human carcinogens.) by NTP [Potential additional emission of formaldehyde]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [1-Butanol]. Classified 1 (Proven for humans.) by IARC [Formaldehyde]. Classified A2 (Suspected for humans.) by ACGIH, 2 (Reasonably anticipated to be human carcinogens.) by NTP [Formaldehyde].

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** PROVEN [Ethanol]

The substance is toxic to the nervous system, the reproductive system, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

**Special Remarks on Toxicity to Animals** Formaldehyde has caused cancer in test animals at high concentrations (5-15 ppm). (Potential additional emission of formaldehyde)

**Special Remarks on Chronic Effects on Humans** Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea and central nervous system depression.

High level exposure to Xylene in laboratory animals, often at levels which are toxic to the mother, have affected the development of the fetus. The relevance of this to humans is not known. (Benzene, dimethyl-)

**Special Remarks on Other Toxic Effects on Humans** Material is irritating to mucous membranes and upper respiratory tract. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death. Material is irritating to mucous membranes and upper respiratory tract. (Benzene, dimethyl-)

**Exposure Limits** Not available.

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## Section 7. Preventive Measures

<b>Personal Protection</b>	Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Impervious gloves.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.
<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Small Spill</b>	Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container.
<b>Large Spill</b>	Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not allow water to enter container. Do not touch spilled material. Prevent entry into sewers, basements or confined areas. Dike if necessary. Call for assistance on disposal.
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Precautions</b>	Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
<b>Storage</b>	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).
<b>TDG Classification</b>	3
<b>PIN</b>	1263 Paint <b>PG: II</b>
<b>Special Provisions for Transport</b>	-
<b>Federal and State Regulations</b>	<b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Benzene, methyl-; Formaldehyde <b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause birth defects or other reproductive harm.: Benzene, methyl- <b>WARNING:</b> This product contains chemical/chemicals known to the state of California to cause cancer.: Formaldehyde Illinois toxic substances disclosure to employee act: Benzene, ethyl- New York acutely hazardous substances: Benzene, ethyl- Rhode Island RTK hazardous substances: Benzene, ethyl- Pennsylvania RTK: Acetic acid, 2-methylpropyl ester; Benzene, methyl-; Benzene, ethyl-; Benzene, dimethyl-; Ethanol Florida: Benzene, ethyl- Minnesota: Benzene, ethyl-; Ethanol Massachusetts RTK: Acetic acid, 2-methylpropyl ester; Benzene, ethyl-; Ethanol New Jersey: Acetic acid, 2-methylpropyl ester; Benzene, methyl-; Benzene, ethyl-; Ethanol TSCA 8(b) inventory: Acetic acid, 2-methylpropyl ester; Benzene, methyl-; Benzene, ethyl-; Benzene, dimethyl-; Ethanol; N-Butyl Alcohol TSCA 8(d) H and S data reporting: Benzene, ethyl- SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic acid, 2-methylpropyl ester: Fire hazard, Immediate (acute) health hazard; Benzene, ethyl-: Fire hazard, Immediate (acute) health hazard; Benzene, dimethyl-: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Isobutyl alcohol: Fire hazard, Delayed (chronic) health hazard; 1-Propanol, 2-methyl-: Fire hazard, Delayed (chronic) health hazard CERCLA: Hazardous substances.: Acetic acid, 2-methylpropyl ester; Benzene, methyl-: 1000 lbs. (453.6 kg); Benzene, ethyl-: 1000 lbs. (453.6 kg); Benzene, dimethyl-: 100 lbs. (45.36 kg); Isobutyl alcohol; 1-Propanol, 2-methyl-; N-Butyl Alcohol;
<b>Other Regulations</b>	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). <b>OSHA: Standard for Occupational Exposure to Formaldehyde 29CFR 1910.1048 must be consulted before initial use of product</b>

