

MATERIAL SAFETY DATA SHEET FOR CANTESCO® P101S-A AEROSOL

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : CANTESCO® PENETRANT - SOLVENT
PRODUCT IDENTIFIER : PENETRANT - SOLVENT
PRODUCT USE : INSPECTION DYE
ITEM CODE(S) : P101S-A
UPC BAR CODE(S) : 10020
FORMULA NAME : P101S-A
FORMULA CODE : 0
MSDS CODE : 1
E-MAIL ADDRESS : MSDS@CANTESCO.COM
WEB ADDRESS : WWW.CANTESCO.COM
USA ADDRESS : KEMPER SYSTEM PRODUCTION, INC
1200 NORTH AMERICA DRIVE
WEST SENECA, NY 14224
PH (716) 693-8206
FAX (716) 693-8373
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13 - 5200 DIXIE ROAD
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PH (905) 624-5463
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EMERGENCY TELEPHONE : (613) 996-6666 (CANUTEC - Call collect)
PREPARATION DATE : APRIL 01, 2009
OSHA REGULATORY STATUS : REGULATED
WHMIS CLASSIFICATION : A, B5, D2A, D2B

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Table with 8 columns: HAZARDOUS INGREDIENTS, CAS, OSHA PEL, ACGIH TLV, LD50 SPECIES/ROUTE, LC50 SPECIES/ROUTE, %WT. Rows include HEAVY AROMATIC PETROLEUM NAPHTHA, LIQUIFIED PETROLEUM GAS, DIETHYLENE GLYCOL MONOBUTYL ETHER, DIASZO DYE, XYLENE, and ETHYLBENZENE.

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CONTENTS EXTREMELY FLAMMABLE AND UNDER PRESSURE. STORE BELOW 120°F (49°C), OUT OF SUNLIGHT AND AWAY FROM HEAT SOURCES. DO NOT PUNCTUE OR INCINERATE. AVOID CONTACT WITH SKIN AND EYES. VAPOR HARMFUL. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

EYE: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.
SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
INGESTION: Due to being an aerosol, product does not lend itself to ingestion. Should ingestion occur, it may cause irritation to membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps.
INHALATION: Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.
EFFECTS OF ACUTE EXPOSURE: N/Av
EFFECTS OF CHRONIC EXPOSURE: N/ Av
OTHER IMPORTANT HAZARDS: N/Av
SUGGESTED HMIS RATING: HEALTH | 2 | FLAMMABILITY | 4 | REACTIVITY | 0 | PERSONAL PROTECTION | B |



## SECTION 4. FIRST AID MEASURES

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**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

**INGESTION:** Unlikely due to being in aerosol form. Should actual ingestion occur, do not induce vomiting! Drink a glass of water or milk to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**EYE CONTACT:** Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

**SKIN CONTACT:** Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.

## SECTION 5. FIRE FIGHTING MEASURES

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**CONDITIONS OF FLAMMABILITY:** Heat, sparks, flame, red hot metal.

**MEANS OF EXTINCTION:** For warehouse and storage conditions, use NFPA Class B extinguishers (CO<sub>2</sub>, dry chemical or universal aqueous film forming foam).

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed aerosol containers for containers can rupture violently from heat developed pressure.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents extremely flammable and under pressure. In addition, when liquid or vapor comes into contact with flames or red hot metal, products of combustion will be created. Firemen should wear self-contained breathing apparatus.

**FLASH POINT / DETERMINATION:** Propellant < 0°F (<-18°C)

**UPPER FLAMMABLE LIMIT:** 9.5%

**LOWER FLAMMABLE LIMIT:** 1.8%

**AUTO-IGNITION TEMPERATURE:** 442°F (227.8°C)

**HAZARDOUS COMBUSTION PRODUCTS:** N/Av

**EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT:** N/Av

**EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE:** N/Av

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**LEAK / SPILL RESPONSE:** Product is an aerosol, therefore spills and leaks are unlikely. In case of rupture, released content should be contained as any other solvent spill. Spills from aerosol cans are unlikely and are generally of small volume. Large spills are therefore not normally considered a problem. In case of actual rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up material with inert absorbent and place in safety containers for proper disposal.

**SPECIAL INSTRUCTIONS:** Aerosol products represent a limited hazard and will not spill or leak unless ruptured. In case of rupture contents are generally evacuated from the can rapidly. Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. Aerosol cans should never be incinerated or burned. See Section 13 for disposal considerations.

## SECTION 7. HANDLING AND STORAGE

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**HANDLING PROCEDURES / EQUIPMENT:** Avoid prolonged or repeated skin contact. Avoid breathing vapors.

**STORAGE REQUIREMENTS:** Store in area below 120°F (49°C). Do not incinerate (burn) containers. Assure can is in a secure place to prevent knocking over and accidental rupture. Always replace overcap when not in use. For storage of pallet quantities, compliance with ANSI/NFPA 30B is recommended.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**EYE PROTECTION:** Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing such as Sol-Vex® gloves or other clothing impervious to the ingredient listed in Section 2.

**ENGINEERING CONTROLS:** General ventilation (typically 10 air changes for hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system, may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

**EXPOSURE GUIDELINE LEVELS:** Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2



## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point</b>	> 270 F (132.2 C)	<b>Melting/Freezing Point</b>	-91 F (-68.3 C)
<b>Flash Point, Liquid Content</b>	> 83 F (28.3 C)	<b>Flash Point, Propellant</b>	-156 F (-104.4)
<b>Explosive Limits</b>	0.85% to 24.60%	<b>Autoignition Temperature</b>	442 F (227.8 C)
<b>Flammability</b>	Extremely Flammable Aerosol	<b>Specific Gravity (H2O = 1)</b>	0.775 g/cc
<b>Molecular Weight</b>	Not Available	<b>Weight</b>	6.471 lbs/gal
<b>Vapor Pressure</b>	70 psig	<b>pH</b>	Not Available
<b>Vapor Density</b>	5.58 g/cc Maximum	<b>Evaporation Rate</b>	Not Available
<b>Physical State</b>	Liquid Under Pressure	<b>Partition Coefficient</b>	Not Available
<b>Viscosity</b>	Not Available	<b>Refractive Index</b>	Not Available
<b>Percent Volatile</b>	99% Wt (99% Vol) Max	<b>VOC Content</b>	6.375 lbs/gal (763.954 g/l)
<b>Percent VOC</b>	99% Wt (99 % Vol) Max	<b>HAP Content</b>	0.051 lbs/gal (6.133 g/l)
<b>Odor Threshold</b>	Not Available	<b>MIR Value</b>	5.946 g O3/g
<b>Odor</b>	Aromatic	<b>Water Solubility</b>	Not Available
<b>Appearance</b>	Red liquid	<b>Decomposition Temperature</b>	Not Available

## SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Heat, sparks, flame, red hot metal.

MATERIALS TO AVOID (INCOMPATIBILITIES): Strong oxidizing materials.

CONDITIONS OF REACTIVITY: N/Av

HAZARDOUS DECOMPOSITION BYPRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

## SECTION 11. TOXICOLOGICAL INFORMATION

ID	ORAL LD50	DERMAL LD50	INHALATION LC50
1	Not Available	> 3160 mg/kg, rabbit	> 11.4 mg/l /6 hr, rat
2	Not Available	Not Available	57.42% v/v, mice
3	5660 mg/kg, rat	4000 mg/kg, rabbit	Not Available
4	Not Available	Not Available	Not Available
5	2840 mg/kg, rat	4500 mg/kg, rabbit	6300 mg/l /4 hr, rat
6	3500 mg/kg, rat	15500 mg/kg, rabbit	Not Available

ROUTES OF ENTRY: INHALATION[Y] EYE CONTACT[Y] SKIN CONTACT[Y] SKIN ABSORPTION[Y] INGESTION[N]

EXPOSURE LIMITS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

IRRITANCY OF PRODUCT: N/Av

SENSITIZATION TO PRODUCT / MEDICAL CONDITIONS AGGRAVATED: N/Av

CARCINOGENICITY: Ethylbenzene is listed with IARC as Class 2B (possible human carcinogen) and with ACGIH as A3 (confirmed animal carcinogen with unknown relevance to humans). Ethylbenzene is also listed with the State of California as a carcinogen.

TERATOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: Fetotoxic effects of Xylene have been observed in animals, in the absence of material toxicity. None of the ingredients are known mutagens. Exposure to Xylene and related solvents, such as benzene, toluene and ethanol slows the rate of clearance of from the body, thus enhancing its toxic effects.

TOXICOLOGICAL DATA: None of the ingredients are reproductive toxicants.

## SECTION 12. ECOLOGICAL INFORMATION

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ENVIRONMENTAL EFFECTS: This product has not been tested for environmental effects.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS: N/Av

AQUATIC TOXICITY: N/Av

## SECTION 13. DISPOSAL CONSIDERATIONS

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An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed under all applicable RCRA and state regulations.

## SECTION 14. TRANSPORTATION INFORMATION

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SPECIAL SHIPPING INFORMATION : N/Av

### DOT HM-181 SHIPPING INFORMATION

PROPER SHIPPING NAME : Consumer Commodity  
HAZARD CLASS OR DIVISION : ORM-D  
UN NUMBER : 1950  
PACKAGING GROUP : none  
LABEL(S) REQUIRED : none  
LEVEL : 1



### TDG SHIPPING INFORMATION

TDG SHIPPING NAME : Aerosols, Flammable Limited Quantity  
TDG CLASSIFICATION : 2.1  
UN NUMBER : 1950  
PACKING GROUP : none  
LABEL(S) REQUIRED : none  
NAERG : 126  
EMERGENCY TELEPHONE NUMBER : (613) 996-6666



### INTERNATIONAL TRANSPORT INFORMATION

PROPER SHIPPING NAME : Consumer Commodity  
CLASS OR DIVISION : 9  
SUBSIDIARY RISK : none  
HAZARDOUS LABEL(S) : Miscellaneous  
PACKAGING GROUP : none  
UN OR ID NUMBER : ID8000

## SECTION 15. REGULATORY INFORMATION

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TOXIC SUBSTANCES CONTROL ACT (TSCA): The product on this MSDS, or all of its components, is listed under TSCA.

SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: Xylene (<1%)

CLEAN AIR ACT (CAA): The following ingredients appear on the List of Hazardous Air Pollutants (HAP – 42 USC 7412, Title I, Part A, p112): Xylene

CLEAN WATER ACT (CWA): The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): Xylene

CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list(s): None

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL): The product on this MSDS, or all of its components, is included in the DSL.

**SECTION 16. OTHER INFORMATION**

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N/E Not Established  
N/Av Not Available  
N/Ap Not Applicable  
IARC International Agency for Research on Cancer  
ACGIH American Conference of Governmental Industrial Hygienists  
NIOSH National Institute for Occupational Health and Safety  
TLV-TWA Threshold Limit Values, Time Weighted Average  
NAERG North American Emergency Response Guidebook  
WHMIS Workplace Hazardous Materials Information System

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ADDITIONAL INFORMATION REPLY FORM – PLEASE FAX OR EMAIL BACK

**PLEASE ADD ME TO YOUR MSDS DATA BASE FOR PRODUCT UPDATES:**

NAME		TITLE / DEPT	
FIRM			
ADDRESS			
CITY			
STATE / PROV		ZIP / POSTAL CODE	
PHONE		FAX	
EMAIL ADDRESS			

**PLEASE SEND ME INFORMATION ON THE FOLLOWING CANTESCO® PRODUCTS:**

WELDING CHEMICAL PRODUCTS	
AUTOMOTIVE, TRUCK & BUS FLEET WASH PRODUCTS	
CONSUMER CLEANING PRODUCTS	
INDUSTRIAL & INSTITUTIONAL CLEANERS	
HVAC CHEMICAL PRODUCTS	