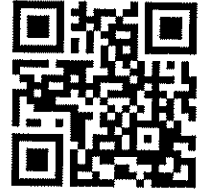


(10185)

MATERIAL DATA SAFETY 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 : 00089-CA-EN
E-MAIL ADDRESS : SNOWICKI@KEMPERSYSTEM.COM
WEB ADDRESS : WWW.CANTESCO.COM (OR SCAN QR CODE)
USA ADDRESS : KEMPER SYSTEM AMERICA, INC
1200 NORTH AMERICA DRIVE
WEST SENECA, NY 14224
PH (716) 558-2971 X 315
FAX (716) 558-2969
CANADIAN ADDRESS : KEMPER SYSTEM CANADA, INC
13 - 5200 DIXIE ROAD
MISSISSAUGA, ON L4W 1E4
PH (905) 624-5463
FAX (905) 624-2840
PREPARED BY : QUALITY CONTROL DEPARTMENT
TELEPHONE : (716) 558-2971
EMERGENCY TELEPHONE : (CANADA ONLY) (613) 996-6666 (CANUTEC - Call collect)
(USA ONLY) (800) 424-9300 (CHEMTREC)
PREPARATION DATE : MARCH 2, 2012
OSHA REGULATORY STATUS : REGULATED
WHMIS CLASSIFICATION : A, B5, D2A, D2B



APPROVED MATERIAL
MAY 03 2012
MSDS # 10185
APPROVED BY [Signature]

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Table with 7 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 PUNCTURE 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 anaesthetic. 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

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

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

MEANS OF EXTINCTION: For warehouse and storage conditions, use NFPA Class B extinguishers (CO₂, 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/A

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: N/A

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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

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

PHYSICAL STATE	:	Liquid Under Pressure
ODOR	:	Aromatic
APPEARANCE	:	Red Liquid
ODOR THRESHOLD	:	Not Available
SPECIFIC GRAVITY (H ₂ O=1)	:	0.775 g/cc
VAPOUR PRESSURE (mm HG)	:	70 psig
VAPOUR DENSITY (AIR=1)	:	5.58 g/cc Maximum
EVAPORATION RATE (BA=1)	:	Not Available
BOILING POINT (°F)	:	>270 F (132.2 C)
FLASH POINT, LIQUID CONTENT	:	>83 F (28.3 C)
EXPLOSIVE LIMITS	:	0.85% to 24.60%
FLAMMABILITY	:	Extremely Flammable Aerosol
MOLECULAR WEIGHT	:	Not Available
FREEZING POINT (°F)	:	-91 F (-68.3 C)
pH	:	Not Available
SOLUBILITY IN WATER	:	Not Available
VISCOSITY	:	Not Available
PERCENT VOLATILE	:	99% Wt (99% Vol) Max
PERCENT VOC	:	99% Wt (99% Vol) Max
FLASH POINT, PROPELLANT	:	-156 F (-104.4)
AUTOIGNITION TEMPERATURE	:	442 F (227.8 C) SPECIFIC GRAVITY (H ₂ O = 1)
WEIGHT	:	6.471 lbs/gal
pH	:	Not Available
PARTITION COEFFICIENT	:	Not Available
REFRACTIVE INDEX	:	Not Available
VOC CONTENT	:	6.375 lbs/gal (763.954 g/l)
HAP CONTENT	:	0.051 lbs/gal (6.133 g/l)
MIR VALUE	:	5.946 g O ₃ /g
WATER SOLUBILITY	:	Not Available
DECOMPOSITION TEMPERATURE	:	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/A

HAZARDOUS DECOMPOSITION BYPRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

ID	ORAL LD 50	DERMAL LD 50	INHALATION LC 50
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

ENVIRONMENTAL EFFECTS: None of the ingredients are reproductive toxicants.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS: N/Av

AQUATIC TOXICITY: N/Av

SECTION 13. DISPOSAL CONSIDERATIONS

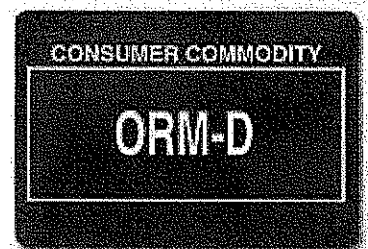
An aerosol container that does not contain a significant amount of liquid would meet the definition of scrap metal (40 CFR 261.1(c)(6)), and would be exempt from RCRA regulation under 40 CFR 261.6(a)(3)(iv) if it is to be recycled. If containers are to be disposed of (not recycled) it must be managed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

SECTION 14. TRANSPORTATION INFORMATION

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

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):
CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list(s): Xylene
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

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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