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CA -

Safety Data Sheet acc. to OSHA HCS & WHMIS

Printing date 11/22/2016

Reviewed on 11/22/2016

1 Identification
· Product identifier: P101S-A
 Trade name: <u>CANTESCO® VISIBLE DYE PENETRANT P101S – SOLVENT REMOVABLE</u> Item number(s): P101S-A MSDS Number: 36 UPC bar code(s): 699913-10020 Application of the substance / the mixture DYE PENETRANT Manufacturer/Supplier: WWW.CANTESCO.COM
USA ADDRESS: KEMPER SYSTEM AMERICA, INC. 1200 NORTH AMERICA DR, WEST SENECA, NY 14224 PH (716) 558-2971
CANADIAN ADDRESS:
KEMPER SYSTEM CANADA 6345 NETHERHART ROAD MISSISSAUGA, ON L5T 1B8 PH (905) 624-5463 FAX (905) 624-2840
 Information department: Tel: (716) 558-2971 ext. 228 www.cantesco.com Emergency telephone number: ChemTrec (800) 424-9300 Canada only: CANUTEC (Call collect) (613) 996-6666
2 Hazard(s) identification
Classification of the substance or mixture:
GHS02 Flame
Flammable Aerosols - Category 1 H222 Extremely flammable aerosol.
GHS04 Gas cylinder
Gases Under Pressure - Compressed Gas H280 Contains gas under pressure; may explode if heated.
GHS08 Health hazard
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Carcinogenicity – Category 2	H351	Suspected of causing cancer.
Specific Target Organ Toxicity - Single Exposure - Category 1	H370-H371	Causes damage to the blood. May cause damage to the eyes.
Specific Target Organ Toxicity - Repeated Exposure - Category 1	Н372-Н373	Causes damage to the eyes through prolonged or repeated exposure. May cause damage to the lung and the nose through prolonged or repeated exposure.
Aspiration Hazard - Category 1	H304	May be fatal if swallowed and enters airways.
• • • • • • • • • • • • • • • • • • • •		
GHS07		
Specific Target Organ Toxicity - Single Exposure - Category 3 Label elements	Н335-Н336	May cause respiratory irritation. May cause drowsiness or dizziness.
GHS label elements The product is classified and labeled Signal word: Danger	l according to	the Globally Harmonized System (GHS).
 Hazard-determining components of labeling: Solvent naphtha (petroleum), heavy arom. naphthalene 1,2,4-trimethylbenzene C.I. SOLVENT RED 164 Hazard statements: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Suspected of causing cancer. Causes damage to the blood. May cause damage to the eye May cause respiratory irritation. May cause drowsiness or Causes damage to the eyes through prolonged or repeated through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames at Do not pierce or burn, even after use. Do not breathe mist/vapours/spray. Do not spray on an open flame or other ignition source. Wear protective gloves/protective clothing/eye protection. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read at IF SWALLOWED: Immediately call a doctor. IF INHALED: Call a POISON CENTER/doctor if you feat IF INHALED: Remove person to fresh air and keep comf Get medical advice/attention if you feel unwell. Do NOT induce vomiting. IF exposed or concerned: Call a doctor. Store locked up. Protect from sunlight. Do not expose to temperatures excert 	dizziness. d exposure. M nd other ignit /face protection and understoon el unwell. fortable for br	ion sources. No smoking. on. od.
rester from sumgne. Do not expose to temperatures exer		(Contd. on page 3)

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(Contd. of page 2) Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations. • NFPA ratings (scale 0 - 4): Health = 2 Fire = 4 Reactivity = 0 • Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
60-100% w/w		
10-30% w/w		
1-5% w/w		
1-5% w/w		
1-5% w/w		
0,1-≤1% w/w		

· Additional information: Exact concentrations are being withheld as trade secrets.

4 First-aid measures

- \cdot <u>After inhalation:</u> Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Generally the product does not irritate the skin.

• After eye contact:

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.

Rinse opened eye for several minutes under running water.

- After swallowing: Rinse mouth, do not induce vomiting, Immediately call a poison center / doctor.
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

5 Fire-fighting measures

- \cdot **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
- \cdot For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- **<u>Protective equipment:</u>** No special measures required.

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6 Accidental release measures

- <u>Personal precautions, protective equipment and emergency procedures:</u> Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- Reference to other sections:
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling:
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires:
- Do not spray on a naked flame or any incandescent material.
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- · Storage
- · Requirements to be met by storerooms and receptacles:
- Store in a cool location.
- Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Keep receptacle tightly sealed.
- Do not gas tight seal receptacle.
- Store in cool, dry conditions in well sealed receptacles.
- Protect from heat and direct sunlight.
- **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components	· Components with limit values that require monitoring at the workplace:		
68476-85-7 P	Petroleum gases, liquefied		
	Short-term value: 1250 ppm		
	Long-term value: 1000 ppm		
PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm		
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm		
TLV (USA)	refer to Appendix F in TLVs&BEIs book; NIC-EX		

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110 24 5 2 (2	(Contd. of pag	
,	-butoxyethoxy)ethanol	
TLV (USA)	Long-term value: 67,5* mg/m ³ , 10* ppm	
	*Inhalable fraction and vapor	
	-trimethylbenzene	
REL (USA)	Long-term value: 125 mg/m ³ , 25 ppm	
TLV (USA)	Long-term value: 123 mg/m ³ , 25 ppm	
91-20-3 naph	thalene	
EL (Canada)	Short-term value: 15 ppm	
	Long-term value: 10 ppm	
	Skin; IARC 2B	
EV (Canada)	Short-term value: 78 mg/m ³ , 15 ppm	
	Long-term value: 52 mg/m ³ , 10 ppm	
PEL (USA)	Long-term value: 50 mg/m ³ , 10 ppm	
REL (USA)	Short-term value: 75 mg/m ³ , 15 ppm	
	Long-term value: 50 mg/m ³ , 10 ppm	
TLV (USA)	Long-term value: 52 mg/m ³ , 10 ppm	
	Skin; BEI	
	formation: The lists that were valid during the creation were used as basis.	
	tective equipment	
	ective and hygienic measures: om foodstuffs, beverages and feed.	
	before breaks and at the end of work.	
	uipment: Use suitable respiratory protective device in case of insufficient ventilation.	
Protection of		
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.		
Material of g		
Nitrile rubber, NBR		
Butyl rubber,		
Eye protection	on:	
	ghtly sealed goggles	

· Form:	Liquid Under Pressure	
Color:	Dark red	
· Odor:	Aromatic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-68,3 °C	
Boiling point/Boiling range:	132 °C	
Flash point:	-104 °C (Prop. (28.3°C liq.))	
· Flammability (solid, gaseous):	Extremely flammable liquefied gas.	

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	(Contd. of page 5)
· Ignition temperature:	227,8 °C
· Decomposition temperature:	Not determined.
• Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <u>Explosion limits</u> Lower: Upper:	.85 Vol % 24,6 Vol %
· Vapor pressure at 20 °C:	70 psig
 Density at 20 °C: Relative density: Vapour density at 20 °C: Evaporation rate: 	0,775 g/cm ³ Not determined. 5,58 (AIR=1) Not applicable.
· <u>Solubility in / Miscibility with</u> Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	ter): Not determined.
· <u>Viscosity:</u> Dynamic: Kinematic:	Not determined. Not determined.
 <u>Solvent content:</u> Organic solvents: <u>Other information</u> 	6,5 % VOC Content: 763.954 g/l VOC %: 99% (Wt) HAP Content: 6.133 g/l MIR Value: 5.946 g O ₃ /g

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- \cdot **Possibility of hazardous reactions:** No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects:

· Acute toxicity

· LD/LC50 values that are relevant for classification:

95-63-6 1,2,4-trimethylbenzene

Oral LD50 5000 mg/kg (rat)

91-20-3 naphthalene

Oral LD50 490 mg/kg (rat)

Dermal LD50 5000 mg/kg (rat)

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- · Primary irritant effect
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

91-20-3 naphthalene

· NTP (National Toxicology Program)

91-20-3 naphthalene

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- **<u>Persistence and degradability:</u>** No further relevant information available.
- · Behavior in environmental systems
- · **Bioaccumulative potential:** No further relevant information available.
- Mobility in soil: No further relevant information available.
- · Additional ecological information
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings
- · Recommendation:

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

· UN-Number		
· DOT, TDG, IMDG, IATA	UN1950	
· UN proper shipping name		
· DOT	Aerosols	
· TDG	1950 Aerosols	
· IMDG, IATA	AEROSOLS	

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DOT Class 2.1 Label 2.1 TDG (Transport dangerous goods): Class 2 Gases Label 2.1 MDG, IATA Class 2.1 IMDG, IATA Class 2.1 IMDG, IATA Class 2.1 IMDG, IATA Class 2.1 Label 2.1 Packing group DOT, TDG, IMDG, IATA Not regulated Environmental hazards: Marine pollutant: No Special marking (TDG): Symbol (fish and tree) Special precautions for user: Danger code (Kemler): - EMS Number: F-D,S-U Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litr Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.		(Contd. of page
Class 2.1 Label 2.1 TDG (Transport dangerous goods):	Transport hazard class(es)	
Class2.1Label2.1TDG (Transport dangerous goods):2.1TDG (Transport dangerous goods):2.1Class2 GasesLabel2.1MDG, IATA2.1MDG, IATA2.1MDG, IATA2.1Segregation Sfor User:2.1Packing group DOT, TDG, IMDG, IATANot regulatedEnvironmental hazards: Marine polutant:No Special marking (TDG):Special precautions for user: EMS Number:Warning: Gases - - F.D.S-UStowage CodeSW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litt Category B. For WASTE AEROSOLS with a capacity above 1 litt Gagergation as for class 9. Stow "separated from" class 1 exce for division 1.4. For AEROSOLS with a capacity above 1 litt Segregation as for class 9. Stow "separated from" class 1 exce for division 1.4. For AEROSOLS with a capacity above 1 litt Segregation as for the appropria subdivision of class 2.Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:Not applicable.	DOT	
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TDG (Transport dangerous goods): Image: Class 2 Gases Label 2.1 IMDG, IATA Image: Class Image: Class 2.1 Label 2.1 Packing group DOT, TDG, IMDG, IATA Not regulated Environmental hazards: Marine pollutant: No Special precautions for user: Packing Gases Danger code (Kemler): - - EMS Number: Stowage Code SW1 Protected from sources of heat. Sw22 For AEROSOLS with a maximum capacity of 1 litt Category B. For WASTE AEROSOLS with a capacity above 1 litt Category B. For AEROSOLS with a maximum capacity of 1 litt Segregation as for class 9. Stow "separated from" class 1 exce for division 1.4. For AEROSOLS with a maximum capacity of 1 litt Segregation as for the appropriat subdivision of class 2. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.		
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Printing date 11/22/2016

Reviewed on 11/22/2016

Trade name: CANTESCO® VISIBLE DYE PENETRANT P101S – SOLVENT REMOVABLE

	(Contd. of page 8
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: Forbidden On cargo aircraft only: Forbidden
Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
TDG	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
ΙΑΤΑ	
Remarks:	This product may be shipped according to the Limited Quantity Exceptions provided that all Limited Quantity shipping requirements are met.
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 Sara
 Section 355 (extremely begandless substances):

· Section 355 (extremely hazardous substances):			
None of t	None of the ingredients is listed.		
· Section 3	13 (Specific toxic chemical listings):		
112-34-5	2-(2-butoxyethoxy)ethanol		
95-63-6	1,2,4-trimethylbenzene		
91-20-3	naphthalene		
· TSCA (T	oxic Substances Control Act):		
All ingred	lients are listed or exempted		
 Propositi 	on 65		
· Chemicals known to cause cancer:			
91-20-3 1	91-20-3 naphthalene		
· Chemicals known to cause reproductive toxicity for females:			
None of the ingredients is listed.			
· Chemical	· Chemicals known to cause reproductive toxicity for males:		
None of t	None of the ingredients is listed.		

(Contd. on page 10) CA

Printing date 11/22/2016

Reviewed on 11/22/2016

Trade name: CANTESCO® VISIBLE DYE PENETRANT P101S – SOLVENT REMOVABLE

(Contd. of page 9)

- \cdot Chemicals known to cause developmental toxicity:
- None of the ingredients is listed.
- · Canadian substance listings
- \cdot Canadian Domestic Substances List (DSL/NDSL):
- All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%):

95-63-6 1,2,4-trimethylbenzene

· Canadian Ingredient Disclosure list (limit 1%):

112-34-5 2-(2-butoxyethoxy)ethanol

- 91-20-3 naphthalene
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

Solvent naphtha (petroleum), heavy arom. naphthalene

1,2,4-trimethylbenzene C.I. SOLVENT RED 164

· Hazard statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Suspected of causing cancer.

Causes damage to the blood. May cause damage to the eyes.

May cause respiratory irritation. May cause drowsiness or dizziness.

Causes damage to the eyes through prolonged or repeated exposure. May cause damage to the lung and the nose through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Do not breathe mist/vapours/spray.

Do not spray on an open flame or other ignition source.

Wear protective gloves/protective clothing/eye protection/face protection.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF SWALLOWED: Immediately call a doctor.

IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

IF exposed or concerned: Call a doctor.

(Contd. on page 11)

⁻ CA

Printing date 11/22/2016

Reviewed on 11/22/2016

Trade name: CANTESCO® VISIBLE DYE PENETRANT P101S – SOLVENT REMOVABLE

(Contd. of page 10)

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Kemper System America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Kemper System America, Inc. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Kemper System America, Inc is an ISO 9001:2008 and ISO 14001:2004 registered company.

- · Department issuing SDS: Product safety department
- · Contact: Stephen Nowicki
- · Date of preparation / last revision 11/22/2016 / 1
- · Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINECS: European Inventory of Existing Commercial Chemical ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent