



Safety Data Sheet

VP-31A(aerosol)

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Date June 4, 2015

1 Product and Company identification:

Product Name: VP-31A Visible Red Penetrant (aerosol)
Manufacturer: Met-L-Chek Company
1639 Euclid Street
Santa Monica, California, 90404, U.S.A.
Phone: +1-310-450-1111
Fax: +1-310-452-4046
E-mail: info@met-l-chek.com
Web: www.met-l-chek.com
Emergency Phone #: Chemtrec +1-800-424-9300 in U.S.A.; outside U.S.A. 001-703-527-3887
Recommended Use: NDT Inspection penetrant per ASTM E-165 & ASTM E-1417, Type 2.
Restrictions on Use: Flammable, avoid use near open flames or ignition source, avoid concentrated vapors, aspiration hazard.
Prepared by: Met-L-Chek Company 6/4/15

2 Hazards identification:

GHS: Classification:

Extremely flammable aerosol (category 1)
Skin irritation (category 2)
Eye irritation (category 2A)
Carcinogenicity (category 2)
Specific target organ toxicity - single exposure (category 3), irritant respiratory system.

Pictogram:



Signal Word: **Danger**

Hazard Statements: **H222:** Extremely flammable aerosol
H229: Pressurized container, may burst if heated.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.

Precautionary statements:

P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P211: Do not spray on an open flame or ignition source.
P251: Do not pierce or burn, even after use.
P261: Avoid breathing fumes/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in well-ventilated area.
P273: Avoid release to the environment.
P-80: Wear protective glove/clothing/eye protection/face protection.
P284: In case of inadequate ventilation wear respiratory protection.
P410: Protect from sunlight
P412: Do not expose to temperatures exceeding 50°C/122°F.

HMIS Classification: Health hazard-1, Flammability-4, Reactivity-0.

WMIS (Canada): A, B5,D2B



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3 Composition/information on ingredients:

<u>Ingredient(s):</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>EINECS number</u>
distillate(petroleum) hydrotreated light	64742-47-8	25-50	926-141-6
butyl stearte	123-95-5	5-10	204-666-5
2Naphthalenol,1-(2(4(2phenyldiazenyl)phenyl)diazenyl)-,1r-heptyl ar',ar''-Mederivs*	92257-31-3	1-5	296-120-8
Solvent naphtha (petroleum) heavy aromatic	64742-94-5	1-5	926-273-4
Propellant (petroleum gas liquified)	68476-85-7	25-50	

*Additional information: CAS: 92257-31-3 Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. Metabolic studies on some Azo-dyes have detected reduction of azo bonds to aromatic amines. It is prudent to assume that the product could metabolise to o-toluidine, which have been identified as animal carcinogen.

4 First Aid Measures:

GHS response statements:

IF SWALLOWED: Immediately call a poison center/doctor/physician. Do Not induce vomiting.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing, get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easily to do. Continue rinsing, get medical attention.

IF ON CLOTHING: Take off contaminated clothing and wash it before reuse.

5 Fire-fighting Measures:

Pressurized containers: Bursting hazard if heated.

Suitable extinguishing agents: Alcohol resistant foam, dry powder, carbon dioxide (CO₂), water haze. For safety reasons water spray is an unsuitable extinguishing agent, but may be used to cool unopened containers.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained respiratory protective device. Wear fully protective suit.

Flash Point: -60°C (-76°F) propellant

Explosive Limit (lower): 0.7-0.8%

Autoignition Temperature: 365°C (689°F) propellant

6 Accidental Release Measures:

Spill: Evacuate area. Ventilate area. Remove all sources of ignition. Wear protective gear. Vapors can accumulate in low areas to form explosive concentrations. Collect liquid in an appropriate container or absorb with an inert material such as vermiculite, dry sand, or earth; DO NOT use combustible materials. Place in a chemical waste container. **DO NOT flush to sewer.** If the product contaminates rivers and lakes or drains inform respective authorities.

7 Handling and Storage:

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Use explosion-proof equipment. Keep away from sources of ignition. Containers may be hazardous when empty since residue liquid and vapors may be present.

Storage: Store in a cool, dry well-ventilated location, away from areas where fire hazard or ignition sources may exist. Store and use in NO SMOKING area. Do not expose to temperatures over 50°C/122°F. Keep out of direct sunlight.

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8 Exposure Controls/Personal Protection:

Eye Protection: Chemical splash goggles, face shield.

Skin Protection: Wear resistant gloves such as Nitrile Rubber, impervious clothing, apron and boots are suggested as well.

Ventilation System: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. If exposure limit is exceeded use organic vapor respirator (type AXBEK or EN 14387) or self contained breathing apparatus.

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

CAS 123-95-5 butyl stearate TLV Long-term value: 10 mg/m³



9. Physical Properties: (bulk)

Form: red liquid.

Initial Boiling Point: >281°C (538°F)

Vapor Pressure : not determined

Solubility in water: not determined

Explosive Limit: 0.9% lower -7.0 %upper

Density: 0.882 g/cm³ at 20°C(68°F)

Flash Point:>93°C(200°F)PMCC

Specific Vapor Density Air=1: not determined

Autoignition Temperature: not determined

Viscosity: 6.3 mm²/s

10. Stability and Reactivity:

10.1 Reactivity

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: Avoid contact with acetaldehyde, acids, chlorine, ethylene oxide, isocyanate and strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information:

11.1 Information on toxicological effects

Acute toxicity: Information on hazardous ingredients

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

Carcinogenic categories

IARC (International Agency for Research on Cancer)

Group 1 Carcinogenic to humans

Group 2A Probably carcinogenic to humans

Group 2B Possibly carcinogenic to humans

Group 3 Not classifiable as to its carcinogenicity to humans

Group 4 Probably not carcinogenic to humans

NTP (National Toxicology Program) None of the ingredients is listed.

OSHA (Occupational Safety None of the ingredients is listed.

12 Ecological Information:

12.1 Toxicity

Aquatic toxicity:

Information on hazardous ingredients

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

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12 Ecological Information: continued

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly 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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal Considerations:

Recommendation: Dispose of container and unused contents with a licensed waste facility. Empty containers may contain flammable residue and vapors. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Collect all waste in suitable and labelled containers and dispose according to local legislation. Do not incinerate container.

14. Transportation information:

14.1 UN-Number

US DOT, IMDG, IATA

UN1950

14.2 UN proper shipping name

US DOT, IMDG, IATA

Aerosols

14.3 Transport hazard class

US DOT

IMDG



IATA



Class: 2.1

Label: limited quantity

Class: 2.1

Label: flammable gas

Label: limited quantity

Class: 2.1

Label: flammable gas

15. Regulatory Information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances):None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):None of the ingredient is listed.

TSCA (Toxic Substances Control Act):

64742-47-8 Distillates (petroleum), hydrotreated light

123-95-5 butyl stearate

92257-31-3 C.I.Solvent Red 164 (eq)

Proposition 65 Chemicals known to cause cancer: None of the ingredient is listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredient is listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredient is listed.

Chemicals known to cause developmental toxicity: None of the ingredient is listed.

Carcinogeny categories

EPA (Environmental Protection Agency) None of the ingredient is listed.

TLV (Threshold Limit Value established by ACGIH) None of the ingredient is listed.

NIOSH (National Institute for Occupational Safety and Health) None of the ingredient is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other Information:

The information accumulated herein is believed to be accurate but does not purport to be all inclusive and shall be used only as a guide. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances with regard to proper safety precautions.

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