



Safety Data Sheet

FP-95A(M) (aerosol)

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Date June 4, 2015

1 Product and Company Identification:

Product Name: FP-95A(M) Fluorescent Penetrant
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 1, Methods B, C & D, Level 3.

Restrictions on Use: Avoid contact with eyes and skin, do not release to the environment..

Prepared by: Met-L-Chek Company 6/4/2015

2 Hazards Identification:

GHS: Classification:

Extremely flammable aerosol (category 1)

Pictogram:



Signal Word: **Danger**

Hazard Statements: **H222:** Extremely flammable aerosol
H229: Pressurized container, may burst if heated.
H335: May cause respiratory irritation.

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 dust/fumes/gas/mist/vapors/spray.
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: 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.

WHMIS (Canada): A, B5,D2B.

3 Hazardous Ingredients Identification:

Ingredient(s):	CAS #	% by Weight
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	50-100
Propellant (petroleum gas liquified)	68476-85-7	50-100



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4 First Aid Measures:

GHS response statements:

IF SWALLOWED: Rinse mouth, Do Not induce vomiting, get medical attention if feeling unwell.

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.

6 Accidental Release Measures:

Spill: Evacuate area. Ventilate area. Remove all sources of ignition. Wear protective gear. 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.**

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.

8 Exposure Controls/Personal Protection:

Eye Protection: Goggles, face shield.

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

Respiratory protection: A system of local or general exhaust is recommended to keep employee exposure below the airborne exposure limits. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



9. Physical Properties: (bulk)

Form: Clear green fluorescent liquid.

Initial Boiling Point: > 245°C(>473°F)

Vapor Pressure: 25 hPa (2mm Hg)

Solubility in water: not miscible

Viscosity: 6.8 mm²/s

Density: 928 gr/L @ 21°C

Flash Point: > 93,3°(> 200°F)

Specific Vapor Density Air=1: no data

Percent Volatile: 18%, VOC's-167 g/L

Explosive Limit: 0.9 % vol lower 7% vol upper

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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: No irritant effect.

on the eye: No irritant effect.

Sensitization: No sensitizing effects known.

Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

IARC (International Agency for Research on Cancer) None of the ingredients is listed.

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 & Health Administration) None of the ingredients is listed.

12 Ecological Information:

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.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system.

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



Class: 2.1

Label: limited quantity

IMDG



Class: 2.1

Label: flammable gas

Label: limited quantity

IATA



Class: 2.1

Label: flammable gas

15. Regulatory Information:

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

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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): All ingredients are listed.

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) 115-86-6 triphenyl phosphate: A4

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.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent