

Global Pioneer in NDT Consumables & Equipment



MATERIAL SAFETY DATA SHEET

ZChek - FP12 Aerosol

Prepared according to the Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Prepared: Dec-24 Supersedes: 04

Section 1: Product and Company Identification

1.1 Product Name: ZChek-FP12-Aerosol

1.2Product Use: Penetrant for Fluorescent Penetrant Inspection Process.

1.3Manufacturer Information: ZChem Specialities Private Limited.

Sy. No.11/2/6, Puradapalya Village Tavarekere Hobli, Bangalore, Karnataka-562130, India

Website: www.zchem.in

Emergency Telephone Number: +91-9959963334

Section 2: Hazards Identification

2.1Hazard Classification

This product is hazardous under the criteria of the hazardous product regulation as implemented under WHMIS 2015

Asp. Tox.1 H304 may be fatal if swallowed and enters airways

Eye dam.1 H318 causes serious damage H220 Flammable Aerosol: Category 1 Gases under pressure- Compressed Gases

2.2 Label Elements







Hazard pictograms

Signal word: Danger

2.3 Hazard Statements

.3 Hazard Statements

- H220 Flammable aerosol. Contains gas under pressure; may explode if heated.
- H225 Highly Flammable liquid and vapor
- H226 Flammable liquid and vapor

2.4 Precautionary statements

- P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- P240+P241 Use explosion- proof electrical, ventilating, lighting, equipment.
- P305+P351+P338 If in eyes- rinse cautiously with water for several minutes.
- P303+P361+P353Wash skin thoroughly after handling.
- P233+P405 Keep container tightly closed.



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2.5 Classification system

HMIS- ratings (scale0-4)

Health -1

Fire -4

Reactivity -0

NFPA-ratings (scale0-4)

Fire- 4
Health-1
Reactivity-0

2.6 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

Section 3 - Information on Ingredients

Ingredient	CAS#	Wt/wt%
Distillates (petroleum), hydrotreated light	64742-47-8	50-60%
Distillates,(petroleum), hydrotreated light naphthenic	64742-53-6	15-25%
Triphenyl Phosphate	115-86-6	1-2%
Coumarin 7-(diethylamino)-4- methyl	91-44-1	1-2%
LPG	68476-86-8	20-30%

Section 4 -First Aid Measures

Eyes: Rinse carefully using plenty of water.

Skin: Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. DO NOT use ointments. Seek medical attention if irritation persists.

Inhalation: Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. DO NOT leave victim unattended. Seek medical attention immediately.



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Section 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguisher agents:

- CO2, sand, extinguishing powder. Do not use water.
- Water haze
- Foam
- ABC Powder

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture Spray cans are under pressure. Carbon monoxide and carbon dioxide,

5.3 Advice for fire fighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

6.2 Environmental precautions: Do not allow to enter sewers, surfaces or ground water.

6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material(sand, diatomite, acid binders, universal binders, sawdust).
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents.
- Collect liquid in an appropriate containers or absorb with an inert materials such as vermiculite, dry sand or earth; DO NOT use combustible materials.
- Place in a chemical waste container.

Section 7: Handling and Storage

7.1Prevention for safe handling:

- DO NOT spray into or around ignition sources. DO NOT allow material to come in contact with eyes or skin. Wear appropriate protective equipment during handling. Keep container closed. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.
- Protect against electrostatic charges.
- DO NOT expose to temperature above 120° F (50°C).
- Use explosion-proof apparatus/fittings and spark-proof tools.
- Containers may be hazardous when empty since residue liquid and vapours may be present.

7.2 Conditions for safe Storage:

- No smoking.
- Store in cool, dry conditions in well sealed receptacles. Do not spray around arcs or flame.

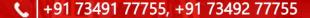
Section 8: Exposure Controls and Personal Protection

8.1 Control Parameters

Distillates (petroleum), hydrotreated light- 64742-47-8		
ACGIH	ACGIH RCP-TWA (mg/m ³)	1200 mg/m ³ (143 ppm) (total
		hydrocarbons; supplier
		exposure limits)



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OSHA	Not applicable	
Distillates,petroleum, hydr	rotreated light naphthenic-6474	12-53-6
ACGIH	Not applicable	
ACGIH	Not applicable	
	Triphenyl Phosphate(115-86-	6)
ACGIH RCP-TWA (mg/m ³)	ACGIH TWA (mg/m³)	3 mg/m^3
OSHA	OSHA PEL (TWA (mg/m ²)	3 mg/m^3
Coumarin, 7-(diethylamino)-4 methyl-(91-44-1)		
ACGIH RCP-TWA (mg/m ³)) Not applicable	
OSHA	Not applicable	
LPG- 68476-86-8		
OSHA	OSHA PEL TWA(ppm)	1000ppm

8.2. Exposure Controls

Engineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines mentioned above.

Personal protection: Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable. Respirator with filter if sprayed in enclosed unventilated space.







General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.

Section 9: Physical and Chemical Properties

Appearance:

Form : Aerosol: Spray can under pressure. Red liquid

Color: Yellow Green Fluorescence

Odor: Characteristic

Odor threshold: Not determined pH value: Not applicable Melting point: Not determined Boiling point: Not determined

Flammability (solid, gaseous)- Flammable

Flash point: -20 deg.C

Ignition temperature: No data available Decomposition temperature: Not determined Auto-ignition temperature- Product is not self igniting

Danger of explosions: Can under pressure with a flammable gas.

Explosions limits: No data available

Vapour pressure at 20 deg.C: Not determined

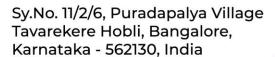
Evaporation rate: Not determined

Solubility /miscibility with water: No data available

Partition Coefficient: Not determined

Dynamic- Not determined Viscosity- Not applicable VOC Content: Not determined Evaporation rate: Not determined













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Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Keep away from heat and ignition sources.

Incompatibility: None

Hazardous Decomposition: When burning, soot, oxides of carbon and nitrogen.

Reactivity: None.

Section 11: Toxicological Information

Distillates (petroleum), hydrotreated light- 64742-47-8		
LD 50 oral rat	>5000 mg/kg	
LD 50 dermal rabbit	>5000 mg/kg	
Distillates,(petroleum), hydrotreated light naphthenic-64742-53-6		
LD 50 oral rat	>2000 mg/kg	
LD 50 dermal rabbit	>2000 mg/kg	

Primary irritant effect

- Skin: No irritant effect.
- Eye: Irritating effect
- Sensitization: No sensitizing effects known

Carcinogenic categories

- IARC(International Agency for Research of Cancer)- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
- ACGIH(American Conference of Governmental Industrial Hygienists)- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
- NTP (National Toxicology Program) No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
- **OSHA-Ca (Occupational Safety and Health Administration)** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

Section 12: Ecological Information

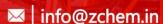
- **12.1.Ecology:** General: May cause long term adverse effect in the aquatic environment.
- **12.2.** Persistence and degradability: No further relevant information available.
- 12.3. Bioaccumulative potential: No further relevant information available
- **12.4. Mobility in soil:** No further information available.

Water hazard class1(self- assessment): slightly hazardous for water.













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Ecotoxical effects:Remarks: Toxic for fish

Section 13: Disposal Considerations

13.1. Waste treatments methods

Recommendation:

- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Waste/unused products
- Collect all waste in suitable and labeled containers and dispose according to local legislation.

13.2. Un-cleaned packaging's:

Recommendation:

Waste/used products

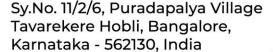
Waste products and empty packages dispose of in accordance with local regulations.

Empty containers may contain flammable residue and vapors.

Section 14: Transport Information

14.1 UN -Number DOT, ADR,IMDG,IATA	Consumer commodity ORM-D UN 1950
14.2 UN proper shipping nameDOT -ADR, IMDG,IATA	Consumer commodity ORM-D Aerosols, flammable
14.3 Transport Hazard class(es)	
DOT	Class – Not applicable
ORM-D	ORM-D
ADR, IMDG,IATA	
	Class – Aerosols flammable, 2.1 Flammable gas, 2.1













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14.4 Packing group DOT ADR,IMDG,IATA	Packing group II
14.5 Environmental hazards Marine pollutant	Not applicable
14.6 Special precautions for user	Warning: Flammable Gas
Transport/ Additional information: DOT Quantity limitations	

Section 15: Regulatory Information

On passenger aircraft/railway:-75 kg

On cargo aircraft only:- 150 kg

15.1 Safety, Health and Environmental Regulations/ Legislation specific for the substance or mixture.

- SARA:- Section 355 (extremely hazardous substances): None of the ingredients is listed.
- Section 311/312 Fire hazard Acute health hazard
- Section 313(Specific toxic chemical listings) 91-20-3 Naphthalene
- TSCA (Toxic Substance Control Act):- All components listed
- Proposition 65
- **Chemicals Known to cause cancer:** None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed
- Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed
- Chemicals known to cause developmental toxicity:
 None of the ingredients is listed
- Carcinogenicity Categories
- **EPA (Environmental Protecting Agency)** –None of the ingredients listed.
- TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.
- NIOSH (National Institute For Occupational Safety And Health)-None of the ingredients is listed.

15.2 Chemical safety assessment:- A Chemical Safety Assessment has not been carried out. Note: This MSDS has been prepared to meet WHMIS 2015 (Canada) requirements.

Section 16: Other Information

Disclaimer To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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