



ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT
Consumables & Equipment



MATERIAL SAFETY DATA SHEET

ZChek – FP12

Prepared according to the Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015
Prepared: Feb-24 Supersedes: 04 ,version-5

Section 1: Product and Company Identification

1.1 Product Name: ZChek- FP12

1.2 Product Use: NDT Inspection Penetrant

1.3 Manufacturer 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

2.1 Hazard 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 eye damage

Skin Irrit.2 H315 Causes skin irritation

2.2 Label Elements



Hazard pictograms

Signal word: **Danger**

2.3 Hazard Statements

- H315 Causes skin irritation
- H318 Cause serious eye irritation.
- H 304 May be fatal if swallowed and enters airways

2.4 Precautionary statements

- P280 Wear protective gloves.
- P301+P310 If swallowed: Immediately call a doctor. Do not induce vomiting.
- P305+P351+P338 If in eyes- rinse cautiously with water for several minutes.
- P405 store locked up



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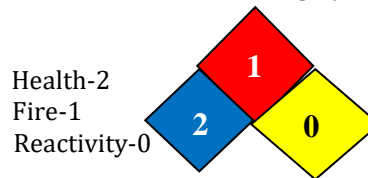
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2.5 Classification system

HMIS- ratings (scale0-4)

Health -2
Fire -1
Reactivity -0

NFPA-ratings (scale0-4)



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%

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.

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 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 appropriate containers or absorb with 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

7.1 Prevention for safe handling:

- 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.
- DO NOT eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.
- Protect against electrostatic charges.
- Use explosion-proof apparatus/fittings and spark-proof tools.
- Containers may be hazardous when empty since residue liquid and vapors may be present.

7.2 Conditions for safe Storage:

- No smoking.
- Store in cool, dry conditions in well-sealed receptacles.

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)
OSHA	Not applicable	
Distillates, petroleum, hydrotreated light naphthenic-64742-53-6		
ACGIH	Not applicable	
ACGIH	Not applicable	



	Triphenyl Phosphate(115-86-6)	
ACGIH RCP-TWA (mg/m ³)	ACGIH TWA (mg/m ³)	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	

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 : Liquid

Color: Yellow-green fluorescent

Odor: Characteristic

Odor threshold: Not determined

pH value: Not applicable

Melting point: Not determined

Boiling point: Not determined

Flammability (solid, gaseous)- Not determined

Flash point: 120 deg.C

Ignition temperature: No data available

Decomposition temperature: Not determined

Auto-ignition temperature- Product is not self igniting

Danger of explosions: No data available

Explosions limits: No data available

Density @ 29.5 deg.C- 0.89g/cc

Vapour pressure at 20 deg.C: Not determined

Evaporation rate: Not determined

Solubility /miscibility with water: No data available

Partition Coefficient: Not determined

Viscosity:

Dynamic- Not determined

Viscosity-9.5 cSt at 40 deg.C

Evaporation rate: Not determined

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
Triphenyl Phosphate(115-86-6)	
LD 50 oral Rat	3500 mg/kg
LD 50 dermal Rat	>1000 mg/kg
Coumarin, 7-(diethylamino)-4 methyl-(91-44-1)	
LD 50 oral Rat	5000 mg/kg

Primary irritant effect

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

Carcinogenic categories

<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • 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.
<ul style="list-style-type: none"> • 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

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.

Section 14: Transport Information

14.1 UN -Number DOT, ADR,IMDG,IATA	Not applicable
14.2 UN proper shipping name <ul style="list-style-type: none"> • DOT - • ADR, IMDG,IATA 	Not applicable
14.3 Transport Hazard class(es) DOT ,ADR,IMDG,IATA	Not applicable
14.4 Packing group DOT,ADR,IMDG,IATA	Not applicable
14.5 Environmental hazards Marine pollutant	Not applicable
14.6 Special precautions for user	Not applicable
Transport in bulk according to Annex ii of MARPOL 73/78 and the IBC Code	Not applicable

Section 15: Regulatory Information



- **SARA:-** Section 355 (extremely hazardous substances): None of the ingredients is listed.
- **Section 311/312** Not applicable
- **Section 313** Not applicable
- **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 is 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.

Doc No. : ZChem/Msds/FP12/W001/Feb-24

