

# MATERIAL SAFETY DATA SHEET

## ZChek – FB-Aerosol

Prepared: May-21 Supersedes: 02

### Section 1: Product and Company Identification

**1.1 Product Name:** ZChek-FB-Aerosol

**1.2 Product Use:** Magnetic Particle Inspection Process.

**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](http://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.

Flammable Aerosol: Category 1

Gases under pressure- Compressed Gases

Asp. Tox.1 - May be fatal if swallowed and enters airways.

#### 2.2 Label Elements



#### Hazard pictograms

Signal word: **Danger**

#### 2.3 Hazard Statements

- Flammable aerosol. Contains gas under pressure; may explode if heated.
- Highly Flammable liquid and vapour.
- Cause serious eye irritation.
- May cause drowsiness or dizziness.

#### 2.4 Precautionary statements

- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- Use explosion- proof electrical, ventilating, lighting, equipment.
- If in eyes- rinse cautiously with water for several minutes.
- Wash skin thoroughly after handling.
- Keep container tightly closed.



## 2.5 Classification system

HMIS- ratings (scale0-4)

<b>Health -1</b>
<b>Fire -4</b>
<b>Reactivity -0</b>

NFPA-ratings (scale0)

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) Hydrated light	64742-47-8	80-90%
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.

## 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 any 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

### 7.1 Prevention 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

<b>Distillates (Petroleum) hydrated light-64742-47-8</b>		
OSHA	OSHA PEL TWA (mg/m <sup>3</sup> )	5mg/m <sup>3</sup>
<b>LPG- 68476-86-8</b>		
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. Liquid with fluorescent suspended particles, gas propellant.

Color: Colorless liquid

Odor: Mild Petroleum/solvent

Odor threshold: Not determined.

pH value: Not determined.

Melting point: Not determined.

Boiling point: 275 deg.C

Flammability (solid, gaseous)- Not applicable

Flash point: 93 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.

Vapour pressure at 20 deg.C: <0.001 kPa (0.01mm Hg) at deg.C /<0.001kPa (0.01 mm Hg) at 38 deg.C/  
0.003kPa (0.02mm Hg) at 50 deg.C

Evaporation rate (n-butyl acetate=1): < 0.01

Solubility /miscibility with water: Negligible

Partition Coefficient: Not determined

Viscosity: 2.8 cSt at 40 deg.C

Vapor density: (Air=1): >1at 101 kPa

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

### 11.1 Information on toxicological effects

**Acute toxicity:** information on hazardous ingredients

#### Primary irritant effect

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



**Carcinogenic categories**

<b>IARC(International Agency for Research of Cancer)</b> - Contains no ingredients listed as carcinogen.
<b>NTP (National Toxicology Program)</b> – None of the ingredients listed
<b>OSHA-Ca (Occupational Safety and Health Administration)</b> -None of the ingredients is listed

**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.

**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:**

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**

<b>14.1 UN -Number</b> DOT, ADR,IMDG,IATA	Consumer commodity ORM-D UN 1950
<b>14.2 UN proper shipping name</b> <ul style="list-style-type: none"> <li>• DOT -</li> <li>• ADR, IMDG,IATA</li> </ul>	Consumer commodity ORM-D Aerosols, flammable
<b>14.3 Transport Hazard class(es)</b>  DOT  	Class – Not applicable  ORM-D



<p><b>ADR, IMDG, IATA</b></p> 	<p>Class – Aerosols flammable, 2.1 Flammable gas, 2.1</p>
<p><b>14.4 Packing group</b> DOT ADR,IMDG,IATA</p>	<p>Packing group II</p>
<p><b>14.5 Environmental hazards</b> Marine pollutant</p>	<p>Not applicable</p>
<p><b>14.6 Special precautions for user</b></p>	<p>Not applicable</p>
<p><b>Transport/ Additional information:</b> DOT Quantity limitations On passenger aircraft/ railway :- 75 kg On cargo aircraft only:- 150 kg</p>	

## Section 15: Regulatory Information

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

- **SARA**:- Section 302 (extremely hazardous substances): None of the ingredients is listed.
- **Section 313** (Specific toxic chemical listings); None of the ingredients is listed.
- **Section 311/312** Fire hazard Acute health hazard
- **TSCA (Toxic Substance Control Act)**:- 64742-47-8 Distillates(petroleum), hydrotreated light
- **Proposition 65**
- **Chemicals Known to cause cancer**: None of the ingredients is listed
- **Carcinogenicity Categories**
- **EPA (Environmental Protecting Agency)** –None of the ingredients listed.
- **NIOSH (National Institute For Occupational Safety And Health)**-None of the ingredients is listed.
- **TLV (Threshold limit Value established by ACGIH)**- 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.





## ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT  
Consumables & Equipment



### 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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