

## MATERIAL SAFETY DATA SHEET

### ZChek – F9W

Prepared: May-21 Supersedes: 02

#### Section 1: Product and Company Identification

**1.1 Product Name:** ZChek- F9W

**1.2 Product Use:** Non-Destructive Testing.

**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 Hazards Classification:

Eye Irritant- 2A

Reproductive toxicity- 1B

STOT SE- 3

##### 2.2 Label elements

##### 2.3 Hazard pictogram



**2.4 Signal word:** Danger

**2.5 Hazard statement:** Causes skin irritation. Cause serious eye damage. Suspected of damaging fertility or the unborn child.

##### 2.6 Precautionary statement

- Avoid to release to the environment.
- If in eyes- rinse cautiously with water for several minutes.
- Wash skin thoroughly after handling.
- Keep container tightly closed.




## 2.7 Classification system

HMIS- ratings (scale 0-4)

<b>Health -2</b>
<b>Fire -0</b>
<b>Reactivity -0</b>

NFPA-rating

Fire- 0	
Health-2	
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%
Borax decahydrate	1303-96-4	78-80%
Iron oxide	7439-89-6	1-2%

## Section 4 –First Aid Measures

### 4.1. Description Of First Aid Measures

**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.

**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.

**Eyes:** Rinse carefully using plenty of water.

**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.

### 4.2. Most Important Symptoms And Effects, Both Acute and Delayed

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Symptoms/injuries after eye contact:** Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Symptoms/injuries after ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

### 4.3. Indication of any immediate Medical Attention And Special Treatment Needed:

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.



## Section 5: Fire Fighting Measures

**5.1 Flammability:** Not Flammable

**5.2 Extinguishing media**

**Suitable extinguisher agents:** Treat for surrounding material.

**Unsuitable extinguisher agents:** None Known

**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 spill with inert material like sand, vermiculite then place in a suitable container. Use appropriate Personal Protective Equipment (PPE).
- Vacuum or sweep material and place in a disposal 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.

**7.2 Conditions for safe Storage:**

- Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep away from heat, sparks and open flame.

## Section 8: Exposure Controls and Personal Protection

**8.1 Control Parameters**

Ingredient	OSHA-PEL	ACGIH-TLV
Borax decahydrate	10 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Iron oxide	1 mg/m <sup>3</sup>	0.02mg/m <sup>3</sup> (respirable fraction) 0.1 mg/m <sup>3</sup> (inhalable fraction)

**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 : Powder  
Color: Green  
Odor: Characteristics  
Odor threshold: No data available  
pH value: 9 (1%)  
Melting point: No data available  
Boiling point: No data available  
Flammability (solid, gaseous)- Not Flammable  
Flash point: No data available  
Ignition temperature: No data available  
Decomposition temperature: No data available  
Auto-ignition temperature- No data available  
Danger of explosions: No data available  
Evaporation rate: No data available  
Solubility /miscibility with water: No data available  
Partition Coefficient: No data available  
Viscosity:  
Dynamic- Not relevant  
Viscosity- Not relevant

## Section 10: Stability and Reactivity

**Stability:** Stable under normal condition  
**Conditions to Avoid:** None known  
**Incompatibility:** None known  
**Hazardous Decomposition:** May include, and are not limited to: oxides of carbon  
**Reactivity:** No dangerous reaction known under conditions of normal use.

## Section 11: Toxicological Information

### 11.1 Routes of exposure

**Ingestion :** Expected to be a low ingestion hazard.  
**Inhalation:** Inhalation of dusts may cause respiratory irritation.  
**Skin Contact:** Dust or powder may irritate the eyes.  
**Eye Contact :** Dust may cause eye, skin and respiratory tract irritation.

### Acute toxicity:

Ingredient	IDLH	LC 50	LD 50
Borax decahydrate	Not available	Not available	Oral 2660 mg/kg,rat
Iron oxide	500 mg Mn/m <sup>3</sup>	Not available	Oral>9000 mg/kg,rat

### Primary irritant effect

- Skin: Causes skin irritation.
- Eye: Causes serious eye irritation.
- Sensitization: No sensitizing effects known
- Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.





- Reproductive toxicity-This product is not expected to cause reproductive or developmental effects.
- Specific target organ toxicity (single exposure)-Not classified.
- Specific target organ toxicity (repeated exposure)-Not classified
- Aspiration hazard- Not an aspiration hazard
- Chronic effect- Prolonged inhalation may be harmful

**Reproductive Toxicity:** Developmental-Suspected of damaging the unborn child.

### Carcinogenic categories

<b>IARC(International Agency for Research of Cancer)</b> - None of the ingredients listed
<b>ACGIH (American Conference for Industrial Hygienists)</b> - None of the ingredients listed
<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.

## 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

<b>14.1 UN NUMBER</b> DOT, ADR,IMDG,IATA	Not regulated as dangerous goods
<b>14.2 UN PROPER SHIPPING NUMBER</b> DOT, ADR,IMDG,IATA	Not regulated as dangerous goods
<b>14.3 Transport Hazard Class (ES)</b> DOT, ADR,IMDG,IATA	Not regulated as dangerous goods



<b>14.4 PACKING GROUP</b> DOT, ADR, IMDG, IATA	Not regulated as dangerous goods
<b>Transport in bulk according to Annex II Of MARPOL 73/78 and IBC Code</b>	Not applicable

## Section 15: Regulatory Information

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

- **Section 313** (Specific toxic chemical listings); None of the ingredient is listed.
- **Section 311/312** : None of the ingredient is listed.
- **TSCA (Toxic Substance Control Act) section 12(b) Export Notification (40 CFR 707, Subpt D):-**  
Not regulated
- **US OSHA Specifically Regulated substance (29 CFR 1910.1001-1050)**-Not listed
- **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.

**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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