

MATERIAL SAFETY DATA SHEET

ZChek – WA-9

Prepared: May-21 Supersedes: 02

Section 1: Product and Company Identification

1.1 Product Name: ZChek- WA9

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

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Section 2: Hazards Identification

2.1 Hazards Classification:

Eye irritation 2A

Reproductively Toxicity 1B

Specific Target Organ Toxicity: Single exposure- Category 3

2.2 Label elements

2.3 Hazard pictogram



2.4 Signal word: Danger

2.5 Hazard statement:

- Causes serious skin irritation.
- May damage fertility or the unborn child.
- May cause respiratory irritation.

2.6 Precautionary statement

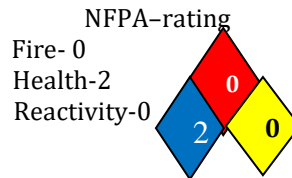
- Avoid to release to the environment.
- If in eyes- rinse cautiously with water for several minutes.
- Wash skin thoroughly after handling.
- Keep container tightly closed.



2.7 Classification system

HMIS- ratings (scale 0-4)

Health -2
Fire -0
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%

Section 4 –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.

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 ³	2 mg/m ³

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: White

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

Primary irritant effect

- Skin: Causes skin irritation.
- Eye: Causes serious eye irritation.
- Sensitization: No sensitizing effects known
- Germ cell mutagenicity: No data available.
- Reproductive toxicity- May damage fertility or the unborn child
- Specific target organ toxicity (single exposure)-May cause respiratory irritation.
- Specific target organ toxicity (repeated exposure)- Based on available data, the classification criteria are not met.
- Aspiration hazard- Not an aspiration hazard
- Chronic effect- Prolonged inhalation may be harmful

IARC(International Agency for Research of Cancer)- None of the ingredients listed

ACGIH (American Conference for Industrial Hygienists)- None of the ingredients listed

NTP (National Toxicology Program) – None of the ingredients listed

OSHA-Ca (Occupational Safety and Health Administration)-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

14.1 UN NUMBER DOT, ADR,IMDG,IATA	Not regulated
14.2 UN PROPER SHIPPING NUMBER 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
Transport in bulk according to Annex II Of MARPOL 73/78 and IBC Code	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**





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- **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.

Doc No. : ZChem/Msds/WA(/020/May-21



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