

## MATERIAL SAFETY DATA SHEET

### ZChek – WP Aerosol

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

Prepared: Nov-23 Supersedes: 05

#### Section 1: Product and Company Identification

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

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

**1.3 Manufacturer Information:** ZChemSpecialities Private Limited.

Sy. No.11/2/6, Puradapalya Village TavarekereHobli, 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

###### Classification of Substance

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**

Physical, Flammable Aerosols, 1

Health, Aspiration hazard, 1

**GHS Label Elements, Including Precautionary Statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Pictograms:**

H222 - Extremely flammable aerosol

H304 - May be fatal if swallowed and enters airways

H229 - Pressurized container: may burst if heated

**GHS Precautionary Statements:**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash ... thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P281 - Use personal protective equipment as required.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P311 - IF exposed or concerned: Call a POISON CENTER/doctor/...P370 + P378 - In case of fire:



Use dry chemical, alcohol resistant foam or dry sand to extinguish.  
P403 + P235 - Store in a well-ventilated place. Keep cool.  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

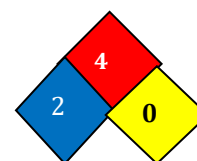
## 2.5 Classification system

HMIS- ratings (scale0-4)

Health -2
Fire -4
Reactivity -0

NFPA-ratings (scale0-4)

Fire- 4  
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%
Acetone	67-64-1	40-60%
2- Propanol	67-63-0	20-30%
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

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### 5.1 Extinguishing media

#### Suitable extinguisher agents:

- CO<sub>2</sub>, 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.

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## Section 6: Accidental Release Measures

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### 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.

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## Section 7: Handling and Storage

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### 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

2- Propanol (67-63-0)		
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
OSHA	OSHA PEL (TWA) mg/m <sup>3</sup>	980 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
USA-IDLH	US IDLH (ppm)	2000 ppm(10% LEL)
USA -NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA -NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA- NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
USA -NIOSH	NIOSH REL (STEL) (ppm)	500 ppm

Acetone (67-64-1)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1188 mg/m <sup>3</sup> /8h
ACGIH	ACGIH TWA (ppm)	500 ppm/8h
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	1782 mg/m <sup>3</sup> /15min
ACGIH	ACGIH STEL (ppm)	750 ppm/15min
OSHA	OSHA PEL (TWA)(mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA -IDLH	US IDLH (ppm)	2500 ppm (10% LEL)
USA- NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	590 mg/m <sup>3</sup> /10h
USA -NIOSH	NIOSH REL (TWA) (ppm)	250 ppm/10h
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. White liquid, gas propellant.

Color: White

Odor: Characteristic

Odor threshold: Not determined.

pH value: Not applicable



Melting point: Not determined.  
Boiling point: Not determined deg.C  
Flammability (solid, gaseous)- Not applicable  
Flash point(bulk): -16 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: Not determined  
Lower: Not determined  
Upper: Propellant- not determined  
Vapour pressure at 20 deg.C: Not determined  
Solubility /miscibility with water: Not miscible or difficult to mix.  
Partition Coefficient: Not determined  
Viscosity:  
Dynamic- Not determined  
Viscosity- Not determined  
VOC Content: 75%  
Vapor density: Not determined  
Evaporation rate: 8.57

## 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

2-Propanol (67-63-0)	
LD 50 oral rat	5840 mg/kg
LD 50 dermal rabbit	>12800 mg/kg
LC inhalation rat	>10000 ppm/6h
Acetone (67-64-1)	
LD 50 oral rat	5800 mg/kg
LC 50 inhalation rat	76 mg/l/4h(female)
LC 50 inhalation rat	132 mg/l/3h (Male)

### 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 probably, possible or confirmed human carcinogen.

**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.

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'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

<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>ADR, IMDG,IATA</b> 	Class – Aerosols flammable, 2.1  Flammable gas, 2.1



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

## Section 15: Regulatory Information

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

- **SARA**:- Section 355 (extremely hazardous substances): None of the ingredient is listed.
- **Section 313** (Specific toxic chemical listings); 67-63-0 propan-2-ol
- **Section 311/312** Fire hazard Acute health hazard
- **TSCA (Toxic Substance Control Act)**:-All components listed
- **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.

**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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