



ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT
Consumables & Equipment



MATERIAL SAFETY DATA SHEET

ZChek – CR Aerosol

Prepared: Mar-21 Supersedes: 02

Section 1: Product and Company Identification

1.1 Product Name: ZChek- CR-Aerosol

1.2 Product Use: Cleaner for Dye Penetrant 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

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 Liquids: Category 2

Eye irritation: Category 2A

Specific Target Organ Toxicity: Single exposure- Category 3

Flammable Aerosol: Category 1

Gases under pressure- Compressed Gases

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.



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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)

| |
|---------------|
| 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% |
|-------------|------------|--------|
| 2- Propanol | 67-63-0 | 70-80% |
| 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 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.

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 vapors 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 ³ | 980 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |
| USA-IDLH | US IDLH (ppm) | 2000 ppm(10% LEL) |
| USA -NIOSH | NIOSH REL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA -NIOSH | NIOSH REL (TWA) (ppm) | 400 ppm |
| USA- NIOSH | NIOSH REL (STEL) (mg/m ³) | 1225 mg/m ³ |
| USA -NIOSH | NIOSH REL (STEL) (ppm) | 500 ppm |
| 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. liquid,gas propellant.

Color: Colorless

Odor: Alcoholic odor

Odor threshold: 3- 610 ppm / 8-1499 mg/m³

pH value: Not applicable

Melting point: -88 deg.C

Boiling point: 82 deg.C

Flammability (solid, gaseous)- Not applicable

Flash point: 12 deg.C

Ignition temperature: No data available

Decomposition temperature: Not determined

Auto-ignition temperature- 399 deg.C

Danger of explosions: Can under pressure with a flammable gas.

Explosions limits: Isopropyl alcohol portion:

Lower: 2.0 Vol%

Upper: 13.0 Vol% Propellant-9.5%(vol.) Gas in air

Vapour pressure: 44 hPa(25 deg.C)

Specific gravity/density: 785 kg/m³





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Evaporation rate: 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: 100%
Vapor density @ 20deg.C: 2.1

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 |

Primary irritant effect

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

Carcinogenic categories

| |
|---|
| IARC(International Agency for Research of Cancer) -67-63-0 Propan-2-ol -3 |
| 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.



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13.2. Un-cleaned packagings:



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

| | |
|--|---|
| <p>14.1 UN -Number DOT, ADR,IMDG,IATA</p> | <p>Consumer commodity ORM-D UN 1950</p> |
| <p>14.2 UN proper shipping name</p> <ul style="list-style-type: none"> • DOT - • ADR, IMDG,IATA | <p>Consumer commodity ORM-D Aerosols, flammable</p> |
| <p>14.3 Transport Hazard class(es)</p> <p>DOT</p>  | <p>Class - Not applicable ORM-D</p> |
| <p>ADR, IMDG,IATA</p>  | <p>Class - Aerosols flammable, 2.1 Flammable gas, 2.1</p> |
| <p>14.4 Packing group DOT ADR,IMDG,IATA</p> | <p>Not applicable None</p> |
| | |
| <p>14.5 Environmental hazards Marine pollutant</p> | <p>Not applicable</p> |
| <p>14.6 Special precautions for user</p> | <p>Warning: Flammable Gas</p> |





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Transport/ Additional information:

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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