



ZChem Specialities Pvt. Ltd.

Global Pioneer in NDT
Consumables & Equipment



MATERIAL SAFETY DATA SHEET

ZChek – DH Aerosol

Prepared: Feb-22 Supersedes:02

Section 1: Product and Company Identification

1.1 Product Name: ZChek- DH-Aerosol

1.2 Product Use: For Visible Liquid Penetrant Inspection.

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

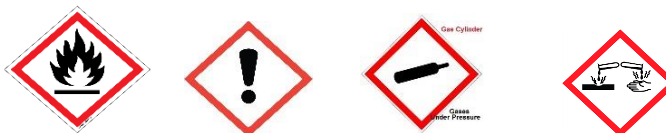
Eye irritation: Category 2A

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 vapor.
- Cause serious eye irritation.
- May cause drowsiness or dizziness.

2.4 Precautionary statements

- Wear protective gloves.
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- Use explosion- proof electrical, ventilating, lighting, equipment.



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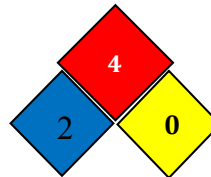
- If in eyes- rinse cautiously with water for several minutes.
- Wash skin thoroughly after handling.
- Keep container tightly closed.

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	50-60%
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





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- 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 container 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.
- 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 expose to temperature exceeding 50 deg C/122 deg F.

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



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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: -20 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: Isopropyl alcohol:

Lower: 2.0 Vol%

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

Vapour pressure at 20 deg.C: Not determined

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: 626.07 g/l

Vapor density: Not determined

Evaporation rate: Not determined

Section 10: Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Keep away from heat and ignition sources.

Incompatibility: None





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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)- 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.



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Section 14: Transport Information

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





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- **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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