

MATERIAL SAFETY DATA SHEET

ZChek - CR

Prepared according to the Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015
Prepared: Dec-22 Supersedes: 03

Section 1: Product and Company Identification

1.1 Product Name: ZChek- CR

1.2 Product Use: Cleaner for Dye Penetrant 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

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

2.2 Label Elements

· Labelling according to Regulation (EC) No 1272/2008 The product is classified and labeled according to the CLP regulation.



Hazard pictograms

Signal word: **Danger**

2.3 Hazard Statements

- H225 Highly Flammable liquid and vapors.
- H319 Cause serious eye irritation.
- H336 May cause drowsiness or dizziness

2.4 Precautionary statement

- P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- P241 Use explosion- proof electrical, ventilating, lighting, equipment.
- P305+P351+P338 If in eyes- rinse cautiously with water for several minutes.
- P303+P361+P353 Wash skin thoroughly after handling.
- P405 Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local regulations.



2.5 Classification system

NFPA ratings (scale 0-4)



HMS -ratings (scale 0-4)

Health -1	Health=1
Fire -3	Fire=3
Reactivity -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%
2- Propanol	67-63-0	80-100%

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



For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 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 appropriate containers or absorb with 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 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.

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

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: liquid

Color: Colorless

Odor: Alcoholic odor

pH value: Not applicable

Flammability (solid, gaseous)- Not applicable

Flash point: 12 deg.C

Ignition temperature: No data available

Decomposition temperature: Not determined

Auto-ignition temperature- No data available

Explosions limits: No data available

Lower: No data available

Upper: No data available

Vapour pressure: Not determined.

Specific gravity/density: 785 kg/m³

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: Not determined.

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 2-Propanol – 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. Bio-accumulative 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 residues.



Section 14: Transport Information

14.1 UN -Number DOT, ADR, IMDG,IATA	UN 1219
14.2 UN proper shipping name <ul style="list-style-type: none"> • DOT - • ADR- • IMDG- • IATA- 	Flammable liquid n.o.s. (Isopropanol) Flammable liquid n.o.s. (Isopropanol) Flammable liquid n.o.s. (Isopropanol) Flammable liquid n.o.s. (Isopropanol)
14.3 Transport Hazard class(es) DOT 	Class 3 Flammable liquid Label-3
ADR, IMDG,IATA 	Class 3 Flammable liquid Label-3
14.4 Packing group DOT,ADR,IMDG,IATA	II
14.5 Environmental hazards Marine pollutant	No
14.6 Special precautions for user Danger code(Kemler): EMS Number:	Warning: Flammable liquids 33 F-E,-S-D
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable



Transport/ Additional information:	
DOT	
Quantity limitations	
On passenger aircraft/ railway :- 5 ltr	
On cargo aircraft only:- 60 ltr	
ADR	Code: E2
Excepted quantities (EQ)	Maximum net quantity per inner packaging- 30 ml
	Maximum net quantity per outer packaging -500 ml
IMDG	
Limited quantities (LQ)	1 L
IATA	
Remarks :	Quantity Limitation- Passenger Air craft- 5ltr
	Quantity Limitation- Cargo Aircraft 60 ltr
	Quantity limitation -Limited quantities- 1ltr
	Packaging Instruction:
	Passenger Aircraft- PI 353
	Cargo aircraft-PI 364
	Limited quantities -PI Y341
UN "Model Regulation"	UN 1993 Flammable liquid n.o.s (Isopropyl alcohol),,3,II

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
- **TSCA (Toxic Substance Control Act)**:-All components listed
- **Proposition 65**
- **Chemicals Known to cause cancer**: None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females**: None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males**: None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity**: None of the ingredients is listed.
- **Carcinogenicity Categories**
- **EPA (Environmental Protecting Agency)** -None of the ingredients listed.
- **TLV(Threshold Limit Value established by ACGIH)**-67-63-0 propan-2-ol
- **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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