

MATERIAL SAFETY DATA SHEET

ZChek – 9E Black-Aerosol

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

Prepared: April-2025, Supersedes: 06

Section 1: Product and Company Identification

1.1 Product Name: ZChek- 9E Black-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

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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 Statements:

H222 - Extremely flammable aerosol

H229 - Pressurized container: may burst if heated

H304 - May be fatal if swallowed and enters airways

GHS Precautionary Statements:

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

P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment.

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%
Distillates(petroleum) Hydrated light	64742-47-8	80-90%
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 any appropriate containers or absorb with an inert material 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

Distillates (Petroleum) hydrated light-64742-47-8		
OSHA	OSHA PEL TWA (mg/m ³)	5mg/m ³
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 with black suspended particles, gas propellant.

Color: Colorless liquid

Odor: Mild Petroleum/solvent

Odor threshold: Not determined

pH value: Not determined

Melting point: Not determined

Boiling point: Not determined

Flammability (solid, gaseous)- Not applicable

Flash point(bulk): 100 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.

Vapour pressure at 20 deg.C: Not determined

Evaporation rate: Not applicable

Solubility /miscibility with water: Negligible

Partition Coefficient: Not determined

Viscosity: Not applicable

Vapor density: (Air=1):Not determined

VOC: Not applicable

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

11.1 Information on toxicological effects

Acute toxicity: information on hazardous ingredients

Primary irritant effect

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



Carcinogenic categories

IARC(International Agency for Research of Cancer)- Contains no ingredients listed as 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. 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:

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

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



<p>14.3 Transport Hazard class(es)</p> <p>DOT</p> 	<p>Class – Not applicable</p> <p>ORM-D</p>
<p>ADR, IMDG, IATA</p> 	<p>Class – Aerosols flammable, 2.1</p> <p>Flammable gas, 2.1</p>
<p>14.4 Packing group</p> <p>DOT</p> <p>ADR,IMDG,IATA</p>	<p>Packing group II</p>
<p>14.5 Environmental hazards</p> <p>Marine pollutant</p>	<p>Not applicable</p>
<p>14.6 Special precautions for user</p>	<p>Not applicable</p>
<p>Transport/ Additional information:</p> <p>DOT</p> <p>Quantity limitations</p> <p>On passenger aircraft/ railway :- 75 kg</p> <p>On cargo aircraft only:- 150 kg</p>	



Section 15: Regulatory Information

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

- **SARA**:- Section 302 (extremely hazardous substances): None of the ingredients is listed.
- **Section 313** (Specific toxic chemical listings); None of the ingredients is listed.
- **Section 311/312** Fire hazard Acute health hazard
- **TSCA (Toxic Substance Control Act)**:- 64742-47-8 Distillates(petroleum), hydrotreated light
- **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.
- **TLV (Threshold limit Value established by ACGIH)**- 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 the 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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