

SAFETY DATA SHEET

SMARTCHECK DYE PEN RED Aerosol

1. IDENTIFICATION

Company: SmartChem Industries Pty Ltd
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Emergency Contact (24 hours) 0402 458 926
Product Use: For Dye Penetrant Inspection
Packaging: Aerosols

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE ACCORDING TO THE CRITERIA OF GHS
DANGEROUS GOODS ACCORDING TO ADG Code
Poisons Schedule – S5

Hazard Statement

- * **DANGER-** H222 Extremely Flammable Aerosol. (Category 1)
- * H304 May be fatal if swallowed and enters airways. (Category 1)
- * H318 Causes serious eye damage. (Category 1)
- * H315 Causes skin irritation. (Category 2)
- * H351 Suspected of causing cancer. (Category 2)

Precautionary Statement

- * P260 Do not breathe fumes or mist.
- * P262 Do not get in eyes, skin and clothing.
- * P271 Use only in well ventilated areas.
- * P280 Wear suitable gloves and eye protection.
- * P210 Avoid all sources of ignition including heat and naked flames.
- * P251 Pressurised container. Do not pierce or burn, even after use.

GHS Pictograms



3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS Number	Proportion
Hydrocarbons Liquid	Mixture	>60%
Nonionic Surfactant	84133-50-6	10-30%
CI Solvent Red 164 (eq)	92257-31-3	<10%
Butane (Propellant)	106-97-8	10-30%

All other ingredients are non-hazardous

4. FIRST AID MEASURES

Swallowed

If swallowed DO NOT induce vomiting. If vomiting occurs lean patient forward or lay them down on their side with their head down. If the patient is conscious give small amounts of water to drink. If symptoms persist transport the patient to hospital or a doctor.

Eyes

If the product comes into contact with the eyes, immediately flush the eye continuously with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists transport the patient to hospital or a doctor.

Skin

If skin contact occurs, remove any contaminated clothing and wash with water (and soap if available). If irritation persists transport the patient to hospital or a doctor.

Inhaled

If inhaled, remove patient to fresh air, lay them down. If patient is not breathing apply resuscitation. If symptoms persist transport the patient to a hospital or a doctor.

Advice to Doctor

Treat Symptomatically.

NOTE: In all severe cases contact a doctor or Poisons Information Centre (PH 131 126)

5. FIRE FIGHTING MEASURES

NOTE: Only attempt to fight the fire if safe to do so.

EXINGUISHING MEDIA

SMALL FIRE:

Water spray, dry chemical or CO₂.

LARGE FIRE

Water spray or fog.

Alert Fire Brigade.

If safe to do so, move undamaged containers from the area or keep containers cool by flooding with water.

FIRE/EXPLOSION HAZARD

Moderate fire hazard when exposed to heat or flame.

Vapour forms an explosive mix with air.

Moderate explosion hazard when exposed to heat or flame.

Vapour may travel considerable distance to source of ignition.

Heating may cause violent rupture of aerosol containers.

Aerosol cans may explode on exposure to naked flames.

Rupturing containers may rocket and scatter burning materials.

6. ACCIDENTAL RELEASE MEASURES

* Eliminate all sources of ignition and increase ventilation.

* Avoid contact with skin and eyes, wear vapour protective clothing, breathing protection, gloves and safety glasses.

* Stop the leak if safe to do so.

* Cover or absorb spill with sand, earth or vermiculite. Collect residues and seal in labelled drums for disposal.

* Damaged cans should be placed in a container outdoors, away from ignition sources until gas has dissipated, if safe to do so.

* Undamaged cans should be removed from the area and stored safely.

* Prevent entry into sewers, waterways and confined areas.

7. HANDLING AND STORAGE

* Store in a cool dry place away from direct sunlight. NO SMOKING.

* Store away from any sources of heat, ignition flames and sparks and away from oxidizing agents.

* Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Material	TWA (ppm)	TWA (mg/m³)	STEL (ppm)	STEL(mg/m³)
Hydrocarbons Liquid	not established		not established	
Nonionic Surfactant	not established		not established	
Butane	800	1900	-	-

Reference: Safe Work Australia- Workplace Exposure Standards for Airborne Contaminants.

Personal Protective Equipment

Eyes- Safety Glasses or Chemical Goggles as required under AS/NZS 1337

Clothing- Normal working overalls and footwear unless moderate exposure is expected then Nitrile or PVC.

Gloves- Nitrile or PVC if moderate exposure is expected.

Respiratory Protection- Type A filter of sufficient capacity conforming to AS/NZS 1716 in situations where exposure limits are likely to be exceeded.

Engineering Controls

No smoking or sources of ignition.

Provide adequate ventilation.

The use of exhaust ventilation may be required if natural ventilation is not adequate.

If risk of overexposure exists, wear suitable Personal Protective Equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red liquid, petroleum odour
Specific Gravity:	approx. 0.85 g/mL
Solubility in water:	Emulsifiable
Flash Point:	Approx 110°C (Propellant approx. -40°C)
Boiling Range:	233-277°C
Flammability Limits:	1.8-9.5%

10. STABILITY AND REACTIVITY

Product is considered stable under normal conditions of use.

Hazardous polymerisation will not occur

CONDITIONS CONTRIBUTING TO INSTABILITY

Open flames, heat, ignition sources, oxidizing agents (chlorine, nitrates, peroxides, etc).

HAZARDOUS DECOMPOSITION PRODUCTS

Emits acrid smoke, fumes and soot when heated to decomposition

11. TOXICOLOGICAL INFORMATION

Acute Health Effects:

If the product is handled in accordance with the label and this SDS, there should be no adverse health effects. Symptoms and effects from overexposure are:-

Eyes: Strong irritant to the eyes, with the danger of severe injury.

Skin: May cause skin irritation after prolonged or repeated exposure and on contact may produce redness, swelling, itching, dryness and cracking (irritant contact dermatitis).

Swallowed: If swallowed it may cause irritation to the throat, vomiting and diarrhoea.

Inhaled: May cause irritation to the nose, throat and respiratory tract. May cause dizziness, drowsiness, headaches, loss of coordination, loss of appetite and possibly loss of consciousness.

Additional Information: Contains an o-Toluidine based azo dye. Following prolonged skin or oral cavity contact, this azo dye could potentially metabolise to o-Toluidine and o-aminoazotoluene which have been identified as animal carcinogens.

12. ECOLOGICAL INFORMATION

No data available. Do not discharge into sewers, drains or waterways.

13. DISPOSAL CONSIDERATIONS

Do not incinerate aerosol cans. Discharge contents of damaged aerosols, empty containers and unused product at an approved site in accordance with government requirements.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Aerosols
UN Number:	1950
Dangerous Goods Class:	2.1
Packing Group:	Not allocated



15. REGULATORY INFORMATION

Poisons Schedule: S5

All of the ingredients are on the AICS list.

16. OTHER INFORMATION

Revision Number: 2

Reason for Revision: Include GHS codes

Revision Date: 1st February 2019

Next Revision Due Before: 1st February 2024

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