



SAFETY DATA SHEET
JAD DEVELOPER AEROSOL

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Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: JAD DEVELOPER AEROSOL

Use / description of product: For use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN ISO 3452-2:2006 Sensitivity level 2 when used in conjunction with penetrant family products)

Company name: Johnson and Allen Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** DICHLOROMETHANE 70-90%
EINECS: 200-838-9 CAS: 75-09-2
[Xn] R40
- POWDER DISPERSION AGENT <1%
[Xi] R41; [N] R50
 - KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT <1%
EINECS: 265-149-8 CAS: 64742-47-8
[Xn] R65; [N] R51/53; [Xi] R66

3. HAZARDS IDENTIFICATION

Main hazards: Limited evidence of a carcinogenic effect.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

Inhalation: Drowsiness or mental confusion may occur. Vapours may cause drowsiness and dizziness
There may be loss of consciousness. Breathing may stop.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove contaminated clothing, including shoes, and launder before re-use. Wash immediately with plenty of soap and water. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. If irritation persists get medical assistance.
Remove any contact lenses.

Ingestion: Wash out mouth with water. Do not induce vomiting. Transfer to hospital as soon as possible. Note to Physician: because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should only be made by an attending physician. If lavage is performed by a physician, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase myocardial irritability. DO NOT administer sympathomimetic drugs unless absolutely necessary. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If breathing is irregular or has stopped, administer artificial respiration. Seek medical advice

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water fog. Dry chemical powder.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Evacuate area of personnel except for those persons who will clean up the spillage and they should be fitted with self-contained respiratory apparatus and protective clothing.

Environmental precautions: Do not allow to enter sewers, surface or ground water. Spillages should be cleaned up immediately, under maximum ventilation with dry sand, earth or other inert materials.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Dispose of in accordance with regulations

7. HANDLING AND STORAGE

Handling requirements: Avoid skin and eye contact. Avoid the inhalation of vapour/spray. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking and eating and drinking should be prohibited in storage and use areas.

Storage conditions: Store in cool, well ventilated area. Keep away from direct sunlight. Store in dry conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: DICHLOROMETHANE

WEL (8 hr exposure limit): 350 mg/m³ WEL (15 min exposure limit): 1060 mg/m³

- KEROSENE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT
WEL (8 hr exposure limit): 1000mg/m³ (manufact)

Engineering measures: Ensure there is sufficient ventilation of the area. Use of local Ex. exhaust ventilation is recommended. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: Respiratory protection should not be necessary during normal use. Where concentrations in air may exceed exposure limits, automomous breathing apparatus or filter material of Type A or similar should be considered.

Hand protection: PVA gloves. Viton gloves.

Eye protection: Suitable eye protection designed to protect against liquid splashes should be worn. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Aerosol

Colour: White when shaken

Odour: Characteristic odour

Solubility in water: Insoluble

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Hot surfaces. Flames.

Materials to avoid: Strong oxidising agents. Strong acids. Should not be left in contact with finely divided light metal e.g. aluminium powder or swarf.

Haz. decomp. products: When heated in air to decomposition: Phosgene fumes are emitted together with Hydrochloric Acid. In combustion emits toxic fumes of carbon dioxide. In combustion emits toxic fumes of carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: DICHLOROMETHANE

ORL MUS LD50 4770 mg/kg

ORL RAT LD50 5350 mg/kg

SCU MUS LD50 6460 mg/kg

- POWDER DISPERSION AGENT

ORL RAT LD50 >2000 mg/kg

Chronic toxicity: Danger of very serious irreversible effects through inhalation. In confined/poorly ventilated areas, vapours can readily accumulate and cause anaesthetic and narcotic effects, dizziness/drunkenness and lead to unconsciousness and death. High levels may also cause cardiac arrhythmias (irregular heartbeats). A single prolonged exposure to skin is not likely to result in the material being absorbed through the skin in harmful amounts. May cause more severe response if confined to skin.

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Volatile. Insoluble in water. Heavier than water. Heavier than air. Readily absorbed into soil.

Persistence and degradability: Expected to be slowly biodegradeable.

Bioaccumulative potential: Bioconcentration factor (BCF) is estimated to be 2.3.

Other adverse effects: Material is harmful to aquatic organisms (LD50/EC50/IC50 between 10 and 100mg/L).

13. DISPOSAL CONSIDERATIONS

Disposal operations: Full aerosol cans must be disposed of as hazardous waste. Empty aerosol cans should be disposed of in accordance with Local Authority Regulations.
 Manufacturer can advise on recovery.

Disposal of packaging: Empty aerosols can be recycled. Packaging, card and plastics can be recycled.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950

ADR Class: 2

Classification code: 5A

Shipping name: AEROSOLS

Labelling: 2.2



IMDG / IMO

UN no: 1950

Class: 2

EmS: F-D,S-U

Marine pollutant: .

Labelling: 2.2

IATA / ICAO

UN no: 1950

Class: 2

Labelling: 2.2

15. REGULATORY INFORMATION

Hazard symbols: Harmful.



Risk phrases: R40: Limited evidence of a carcinogenic effect.

SAFETY DATA SHEET

JAD DEVELOPER AEROSOL

Safety phrases: S3/9/14: Keep in a cool, well ventilated place away from direct sunlight.
S20/21: When using do not eat, drink or smoke.
S23: Do not breathe vapour/spray.
S24/25: Avoid contact with skin and eyes.
S35: This material and its container must be disposed of in a safe way.
S36/37: Wear suitable protective clothing and gloves.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S46: If swallowed, seek medical advice immediately and show this container or label.
S51: Use only in well-ventilated areas.
Do not apply to hot surfaces, smoke or weld whilst using this product.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Precautionary phrases: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.2: R40: Limited evidence of a carcinogenic effect.
R41: Risk of serious damage to eyes.
R50: Very toxic to aquatic organisms.
R65: Harmful: may cause lung damage if swallowed.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66: Repeated exposure may cause skin dryness or cracking.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.