



JAD 2 DEVELOPER – AEROSOL SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Product Name	JAD 2 DEVELOPER – AEROSOL.
	CAS No.	Mixture.
	EINECS No.	Mixture.
	REACH Registration No.	None assigned.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified use(s)	<ul style="list-style-type: none"> • For use in the Dye Penetrant Inspection Process BS EN ISO 571-1 (BS EN ISO 3452-2 Sensitivity level 2 when used in conjunction with penetrant family products). • Coating compound/ Surface coating/ paint
	Uses advised against	None known.
1.3 Details of the supplier of the Safety Data Sheet	Company Identification	Johnson and Allen Ltd Neocol Works Smithfield Sheffield S3 7AR. 0114 2738066 0114 2729842 info@johnsonandallen.co.uk
	Telephone	
	Fax	
	E-Mail (competent person)	
1.4 Emergency telephone number	Emergency Phone No.	0114 2738066. (UK office hours 08.30-17.00)

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	Regulation (EC) No. 1272/2008 (CLP)	Aerosol 1; Extremely flammable aerosol. Pressurised container: May burst if heated. Eye Irrit. 2; Causes serious eye irritation. STOT SE 3; May cause drowsiness or dizziness.
2.2 Label elements	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) JAD 2 DEVELOPER – AEROSOL.
	Hazard Pictogram	 
		GHS02 GHS07
	Signal word(s)	Danger.
	Hazard statement(s)	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

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Precautionary statement(s)	<p>P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261: Avoid breathing vapours.</p> <p>P280: Wear protective gloves/eye protection/face protection.</p> <p>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.</p>
Additional Information	<p>Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep out of the reach of children.</p>
2.3 Other hazards	Repeated exposure may cause skin dryness or cracking.
2.4 Additional Information	For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Substances

Not applicable.

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Dimethyl Ether	50-100	115-10-6	204-065-8	01-2119472128-37-0000	GHS02, Flam. Gas 1; H220, GHS04, Press. Gas; H280
Acetone	25-50	67-64-1	200-662-2	01-2119471330-49-0000	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336, EUH066

3.3 Additional Information

For full text of H/P Statements see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact

Wash skin with soap and water. If symptoms persist, obtain medical attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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Ingestion	Wash out mouth with water. If symptoms persist, obtain medical attention.
4.2 Most important symptoms and effects, both acute and delayed	Eye Contact: Irritation, Pain. Skin Contact: Repeated exposure may cause skin dryness or cracking.
4.3 Indication of any immediate medical attention and special treatment needed	Inhalation: May cause drowsiness or dizziness. Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Extremely flammable aerosol. Pressurised container: May burst if heated.

5.1 Extinguishing Media	
Suitable Extinguishing Media	Water spray, dry powder or carbon dioxide. In case of major fire and large quantities: Extinguish with waterspray or foam.
Unsuitable Extinguishing Media	Water jet spray.
5.2 Special hazards arising from the substance or mixture	Heating may cause pressure rise with risk of bursting.
5.3 Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep containers cool by spraying with water if exposed to fire.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

6.1 Personal precautions, protective equipment and emergency procedures	Eliminate sources of ignition. Ensure adequate ventilation. Evacuate the area. Wear protective gloves/eye protection.
6.2 Environmental precautions	Do not release large quantities into the surface water or into drains.
6.3 Methods and material for containment and cleaning up	Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.
6.4 Reference to other sections	See Also Section 8 and 13

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Use only non-sparking tools. Keep out of the reach of children. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Avoid contact with eyes. Avoid prolonged skin contact. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling.
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- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage Temperature: Store locked up. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place.
- Storage Life: Ambient. Do not expose to temperatures exceeding 50°C/ 122°F.
- Incompatible materials: Stable under normal conditions.
- 7.3 Specific end use(s)**
- For use in the Dye Penetrant Inspection Process BS EN ISO 571-1 (BS EN ISO 3452-2 Sensitivity level 2 when used in conjunction with penetrant family products).
 - Coating compound/ Surface coating/ paint

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits**

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Dimethyl Ether	115-10-6	400	766	500	958	WEL
Acetone	67-64-1	500	1210	1500	3620	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls** Ensure adequate ventilation.
- 8.2.2 Personal protection equipment**
- Eye/face protection  Wear suitable eye/face protection.
- Skin protection (Hand protection/ Other)  Wear suitable gloves if prolonged skin contact is likely.
- Respiratory protection  In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type AX may be appropriate.
- Thermal hazards  Not applicable.
- 8.2.3 Environmental Exposure Controls** Do not release large quantities into the surface water or into drains.

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9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Aerosol.
Colour	Colourless.
Odour	Characteristic.
Odour Threshold	Not determined.
pH	Not determined.
Melting Point/Freezing Point	Not applicable.
Initial boiling point and boiling range	-24°C
Flash point	-42°C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	2.6 – 18.6 Vol-%
Vapour pressure	5200 hPa @ 20°C
Vapour density	Not determined.
Relative density	Not determined.
Density	0.777 g/cm ³ @ 20°C
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not determined.
Auto-ignition temperature	Product is not selfigniting.
Ignition temperature	235°C
Decomposition Temperature	Not determined.
Kinematic Viscosity	Not determined.
Explosive properties	Contains gas under pressure; may explode if heated.
Oxidising properties	No information available.
9.2 Other information	
Solvent content: Organic solvents	87.7%
Solid content	12.3%

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	Heat and direct sunlight.
10.5 Incompatible materials	None known.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

Unlikely to cause harmful effects under normal conditions of handling and use.

11.1 Information on toxicological effects	
11.1.1 Mixtures	
Acute toxicity	
Ingestion	Low oral toxicity.
Inhalation	STOT SE 3; May cause drowsiness or dizziness.
Irritation	
	Eye Irrit. 2; Causes serious eye irritation.
	Repeated exposure may cause skin dryness or cracking.
Corrosivity	Not classified.
Sensitisation	Not expected to be a skin or respiratory sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.

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	Toxicity for reproduction	None anticipated.
	Aspiration hazard	None anticipated.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	The product is biodegradable.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation.
12.4	Mobility in soil	Immiscible with water. The product is predicted to have low mobility in soil. The product is volatile and will partition into the atmosphere.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Refer to manufacturer for information on recovery/recycling. Do NOT landfill.
13.2	Additional Information	Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1	UN number	UN 1950
14.2	UN Proper Shipping Name	AEROSOLS, Flammable.
14.3	Transport hazard class(es)	2.1
14.4	Packing Group	None.
14.5	Environmental hazards	Not classified as a Marine Pollutant.
14.6	Special precautions for user	None.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
14.8	Additional Information	
	ADR Classification Code	5F
	IMDG Code	EmS: F-D, S-U
	Tunnel Restriction Code	D

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.
	REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
	REACH: ANNEX XIV List of substances subject to authorisation	All chemicals are not listed.
	Community Rolling Action Plan (CoRAP)	All chemicals are not listed.
15.1.2	National regulations	None known.
15.2	Chemical Safety Assessment	Not applicable.

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16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 14

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable liquid Category 2
Press. Gas	Gases under pressure
Eye Irrit. 2	Serious eye damage/irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3

Hazard statement(s) and Precautionary statement(s)

H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P405	Store locked up.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Hazard pictogram(s)

GHS02



GHS07



GHS04



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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.