



JAC 2 – 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	JAC 2 – 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 571-1:1997 (BS EN ISO 3452-2:2006 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.
Telephone	0114 2738066
Fax	0114 2729842
E-Mail (competent person)	info@johnsonandallen.co.uk
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. Asp. Tox. 1; May be fatal if swallowed and enters airways. STOT SE 3; May cause drowsiness or dizziness. Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.



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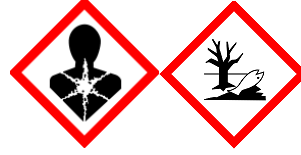
2.2 Label elements
 Product Name
 Hazard Pictogram

According to Regulation (EC) No. 1272/2008 (CLP)
 JAC 2 – AEROSOL.



GHS02

GHS07



GHS08

GHS09

Signal word(s)
 Hazard statement(s)

Danger.
 H222: Extremely flammable aerosol.
 H229: Pressurised container: May burst if heated.
 H304: May be fatal if swallowed and enters airways.
 H336: May cause drowsiness or dizziness.
 H411: Toxic to aquatic life with long lasting effects.
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273: Avoid release to the environment.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P331: Do NOT induce vomiting.
 P405: Store locked up.
 Pressurized 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. Keep out of the reach of children.

Precautionary statement(s)

Additional Information

2.3 Other hazards

None.

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



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Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics.	25 - 50	None assigned	920-750-0	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, GHS09, Aquatic Chronic 2; H411
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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/doctor if you feel unwell.

Skin Contact

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

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or persists.

Ingestion

IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media

Water spray, foam, dry powder or CO₂.

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. Hazardous decomposition product(s): Smoke, Oxides of carbon.

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.



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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.

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| 6.1 Personal precautions, protective equipment and emergency procedures | Eliminate sources of ignition. Ensure adequate ventilation. Avoid breathing vapours. Wear protective gloves/protective clothing/eye protection/face protection. |
| 6.2 Environmental precautions | Avoid release to the environment. |
| 6.3 Methods and material for containment and cleaning up | Absorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. 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

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|---|---|
| 7.1 Precautions for safe handling | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized 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. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. |
| 7.2 Conditions for safe storage, including any incompatibilities | Store locked up. Keep container tightly closed. Protect from sunlight. Store in a well-ventilated place. |
| Storage Temperature | Ambient. Do not expose to temperatures exceeding 50°C/ 122°F. |
| Storage Life | Stable under normal conditions. |
| Incompatible materials | Strong oxidising agents. |
| 7.3 Specific end use(s) | <ul style="list-style-type: none"> • 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). • 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

WEL: Workplace Exposure Limit (UK HSE EH40)

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|-------------------------------------|------------------|
| 8.1.2 Biological limit value | Not established. |
| 8.1.3 PNECs and DNELs | Not established. |



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8.2 Exposure controls	
8.2.1 Appropriate engineering controls	Provide adequate ventilation.
8.2.2 Personal protection equipment	
Eye/face protection	Not normally required. Wear protective eyewear (goggles, face shield, or safety glasses).
	
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	Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Aerosol.
Colour	Clear Colourless.
Odour	Characteristic.
Odour Threshold	Not available.
pH	Not applicable.
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	0.9 – 18.6Vol-%
Vapour pressure	5200hPa @ 20°C
Vapour density	Not available.
Relative density	Not available.
Density	0.687g/cm ³ @ 20°C
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	The product is not self-igniting.
Ignition temperature	>220°C
Decomposition Temperature	Not available.
Kinematic Viscosity	Not available.
Explosive properties	Contains gas under pressure; may explode if heated.
Oxidising properties	No information available.
9.2 Other information	
Organic solvents	59.7%



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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	Strong oxidising agents.
10.6	Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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	Non-irritant.
	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.
	Toxicity for reproduction	None anticipated.
	Aspiration hazard	Asp. Tox. 1; May be fatal if swallowed and enters airways. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.
12.2	Persistence and degradability	Part of the components are poorly biodegradable. Dimethyl ether: 5% (28days) (OECD 301D)
12.3	Bioaccumulative potential	No information available.
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.



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14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number	UN 1950
14.2 UN Proper Shipping Name	AEROSOLS.
ADR/RID / IMDG	AEROSOLS, FLAMMABLE.
ICAO/IATA	
14.3 Transport hazard class(es)	
ADR/RID	2
IMDG / ICAO/IATA	2.1
14.4 Packing Group	None.
14.5 Environmental hazards	
ADR/RID	Environmentally hazardous substance (EHS).
IMDG	Marine Pollutant (MP).
ICAO/IATA	Not applicable.
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	
14.8.1 ADR Classification Code	5F
14.8.2 IMDG Code	EmS: F-D, S-U

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.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 3, 8

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
Aquatic Chronic 2	Hazardous to the aquatic environment Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gas Category 1
Flam. Liq. 2	Flammable liquid Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3



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Hazard statement(s) and Precautionary statement(s)

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Hazard pictogram(s)

GHS02



GHS08



GHS04



GHS09



GHS07



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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.