

**JAP W/W PENETRANT - AEROSOL**

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

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

**1.1 Product identifier**

Product Name JAP W/W PENETRANT - AEROSOL

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified Use(s) A Water Washable or Solvent Removable Visible Red Dye Penetrant for use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN ISO 3452-2:2006 Sensitivity Level 2).

Uses Advised Against Not known.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer

Company Identification Johnson and Allen Ltd  
Address of Manufacturer Neocol Works

Smithfield  
Sheffield

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Fax 0114 2729842

E-mail info@johnsonandallen.co.uk

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Only representative

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Telephone +390290310207

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**1.4 Emergency telephone number**

Company 0114 2738066 (UK office hours 08.30-17.00)

NHS Direct +44 111

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567  
Aerosol 1 :Extremely flammable aerosol. Pressurised container: May burst if heated.

Asp. Tox. 1 :May be fatal if swallowed and enters airways.  
Repr. 2 :Suspected of damaging fertility or the unborn child.  
Aquatic Chronic 3 :Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name

JAP W/W PENETRANT - AEROSOL

Hazard Pictogram(s)



GHS02



GHS08

Signal Word(s)

Danger

Hazard Statement(s)

H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.  
H304: May be fatal if swallowed and enters airways.  
H361: Suspected of damaging fertility or the unborn child.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

EUH066: Repeated exposure may cause skin dryness or cracking.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Additional Information

Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Keep out of the reach of children.

**2.3 Other hazards**

None known.

**JAP W/W PENETRANT - AEROSOL****2.4 Additional Information**

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

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Product as supplied: Aerosol.

**3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	None assigned	920-107-4	70-80	Asp. Tox. 1 H304 EUH066	GHS08
Distillates (petroleum), hydrotreated middle	64742-46-7	265-148-2	1-5	Asp. Tox. 1 H304 Skin Irrit. 2 H315 Acute Tox. 4 H332 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09
2-Naphthalenol,1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar,ar-methyl derivatives	92257-31-3	296-120-8	3-5	Repr. 2 H361 STOT RE 2 H373 Aquatic Chronic 4 H413	GHS08
Tetrahydrofurfuryl salicylate	2217-35-8	218-711-1	1-5	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335	GHS07
Carbon dioxide	124-38-9	204-696-9	1-5	Press. Gas (Comp.) H280	GHS04

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

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
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. If symptoms persist, obtain medical attention.
Ingestion	Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

**4.2 Most important symptoms and effects, both acute and delayed**

Aspiration into the lungs may cause chemical pneumonitis, which can be fatal. May be fatal if swallowed and enters airways. Suspected of damaging fertility or the unborn child.

**4.3 Indication of any immediate medical attention and special treatment needed**

IF exposed or concerned: Get medical advice/attention.

**SECTION 5: FIREFIGHTING MEASURES**

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

**5.1 Extinguishing media**

Suitable Extinguishing media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
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. Decomposes in a fire giving off toxic fumes: Oxides of carbon.

**5.3 Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal. 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.

**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**

Ensure adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

**6.2 Environmental precautions**

Avoid release to the environment.

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**6.3 Methods and material for containment and cleaning up**

Collect mechanically and dispose of according to Section 13. 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, 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurised container - Do not pierce or burn, even after use. Provide adequate ventilation. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist/vapours/spray. Wash hands and exposed skin thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

Store locked up. Protect from sunlight.

Storage temperature

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)**

A Water Washable or Solvent Removable Visible Red Dye Penetrant for use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN ISO 3452-2:2006 Sensitivity Level 2).

**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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Carbon dioxide	124-38-9	5000	9150	15000	27400	

Region: United Kingdom  
Source: UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

**8.2 Exposure controls**

**8.2.1. Appropriate engineering controls** Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection.

**8.2.2. Personal protection equipment**



Eye Protection

Not normally required. Handling of larger amounts: Wear goggles giving complete eye protection.



Skin protection

Not normally required. Wear suitable gloves if prolonged skin contact is likely. Recommended: Neoprene. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

Not applicable.

**8.2.3. Environmental Exposure Controls** Avoid release to the environment.

**JAP W/W PENETRANT - AEROSOL****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance	Aerosol
Odour	Colour: Red.
Odour threshold	Perceptible odour.
pH	Not established.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash Point	> 100°C
Evaporation rate	Not known.
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not known.
Vapour density	Not known.
Density (g/ml)	Not known.
Relative density	Not known.
Solubility(ies)	Solubility (Water): Insoluble. Solubility (Other): Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not applicable.
Decomposition Temperature (°C)	Not known.
Viscosity	3.9 cSt @ 40°C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

**9.2 Other information**

None.

**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**

Keep away from heat and direct sunlight.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Calculation method : Not classified. Low oral toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rat) > 5000 mg/kg (OECD 401)
Acute toxicity - Skin Contact	Calculation method : Not classified. Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LC50 (rat) (4 hours) > 4951 mg/m <sup>3</sup> (OECD 403)
Acute toxicity - Inhalation	Calculation method : Not classified. Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rabbit) > 5000 mg/kg (OECD 402)
Skin corrosion/irritation	Calculation method : Not classified. Non-irritant.
Serious eye damage/irritation	Calculation method : Not classified. Non-irritant.
Skin sensitization data	Calculation method : Not classified. It is not a skin sensitizer.
Respiratory sensitization data	Calculation method : Not classified. There is no evidence of mutagenic potential.
Germ cell mutagenicity	Calculation method : Not classified. There is no evidence of mutagenic potential.

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Carcinogenicity	Calculation method : Not classified. No evidence of carcinogenicity.
Reproductive toxicity	Calculation method : Suspected of damaging fertility or the unborn child. No data.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause drowsiness or dizziness. No data.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : May be fatal if swallowed and enters airways. No data.
<b>11.2 Other information</b>	Not known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

	Harmful to aquatic life with long lasting effects.
Toxicity - Aquatic invertebrates	No data.
Toxicity - Fish	No data.
Toxicity - Algae	No data.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

**12.2 Persistence and degradability**

Part of the components are biodegradable.

**12.3 Bioaccumulative potential**

The product has low potential for bioaccumulation.

**12.4 Mobility in soil**

Insoluble in water. The product is predicted to have low mobility in soil.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Other adverse effects**

Not known.

**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.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number**

UN No. 1950

**14.2 UN proper shipping name**

UN proper shipping name AEROSOLS

**14.3 Transport hazard class(es)**

ADR/RID

ADR/RID Class	2
ADR Classification Code	5F
Special Provisions	190, 327, 344, 625
Limited Quantities	1 L
Excepted Quantities	E0

Mixed Packing Instructions for Packages	P207 LP200
Special Packing Provisions for Packages	PP87 RR6 L2
Mixed Packing Instructions for Packages	MP9

Packing Instructions for Portable Tanks

Special Provisions for Portable Tanks

Tank Code for Tanks

Special Provisions for Tanks

Vehicle for Tank Carriage

ADR Transport Category	2
Tunnel Restriction Code	D
Special Provisions for Carriage - Packages	V14

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading, CV9 CV12

Unloading and Handling

Special Provisions for Carriage - Operation	S2
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ADR HIN

IMDG	
IMDG Class	2
Special Provisions	190, 327, 344, 625
Limited Quantities	1 L
Excepted Quantities	E0
Mixed Packing Instructions for Packages	P207 LP200
Special Packing Provisions for Packages	PP87 RR6 L2
Packing Instructions for Portable Tanks	
Special Provisions for Portable Tanks	
IMDG EMS	F-D, S-U
Stowage and Handling	SW1 SW22
Segregation	SG69
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name	AEROSOLS
Excepted Quantities	E0
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y203
Passenger and Cargo Aircraft Limited Quantities Max net Qty	30Kg
Passenger and Cargo Aircraft Packing Instructions	203
Passenger and Cargo Aircraft Max net Qty	75Kg
Cargo Aircraft Packing Instructions	203
Cargo Aircraft Max net Qty	150Kg
Special Provisions	A145, A167, A802
Emergency Response Guidebook (ERG) Code	10L
Labels	
Labels	2.1



**14.4 Packing group**

Packing group None.

**14.5 Environmental hazards**

Environmental hazards Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

Special precautions for user Not known.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex XIV) list of substances subject to

authorisation Not listed

UK REACH Restrictions List (Annex XVII) Distillates (petroleum), hydrotreated middle (64742-46-7), Hydrocarbons, C12-C15,

Restrictions on the manufacture, placing n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC No.: 920-107-4),

on the market and use of certain Tetrahydrofurfuryl salicylate (2217-35-8)

dangerous substances, mixtures and articles

UK REACH Rolling Action Plan (RAP) Not listed

The Persistent Organic Pollutants Not listed

Regulations 2007 (SI 2007/3106) as amended

The Ozone-Depleting Substances and Not listed

Fluorinated Greenhouse Gases

(Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583)

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The Prior Informed Consent (PIC) Not listed  
 Regulations concerning the export and import of hazardous chemicals SI2008/2108 as amended  
 European Regulations - Authorisations and/or Restrictions On Use  
 Community Rolling Action Plan (CoRAP) Not listed  
**15.2 Chemical Safety Assessment**  
 United Kingdom Not applicable.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16

**LEGEND**

Hazard Pictogram(s)



GHS02

GHS08

Hazard classification

GHS04: GHS: Gas cylinder  
 GHS07: GHS: Exclamation mark  
 GHS09: GHS: Environment  
 Aerosol 1 : Aerosol, Category 1  
 Press. Gas (Comp.) : Gases under pressure, Compressed gas  
 Acute Tox. 4 : Acute toxicity, Category 4  
 Asp. Tox. 1 : Aspiration hazard, Category 1  
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2  
 Eye Irrit. 2 : Serious eye damage/irritation, Category 2  
 Acute Tox. 4 : Acute toxicity, Category 4  
 STOT SE 3 : Specific target organ toxicity — single exposure, Category 3  
 Repr. 2 : Reproductive toxicity, Category 2  
 STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2  
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2  
 Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3  
 Aquatic Chronic 4 : Hazardous to the aquatic environment, Chronic, Category 4

Hazard Statement(s)

H222: Extremely flammable aerosol.  
 H229: Pressurised container: May burst if heated.  
 H280: Contains gas under pressure; may explode if heated.  
 H302: Harmful if swallowed.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H335: May cause respiratory irritation.  
 H361: Suspected of damaging fertility or the unborn child.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H411: Toxic to aquatic life with long lasting effects.  
 H412: Harmful to aquatic life with long lasting effects.  
 H413: May cause long lasting harmful effects to aquatic life.  
 EUH066: Repeated exposure may cause skin dryness or cracking.  
 P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211: Do not spray on an open flame or other ignition source.  
 P251: Do not pierce or burn, even after use.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
 P308+P313: IF exposed or concerned: Get medical advice/attention.

Precautionary Statement(s)

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P331: Do NOT induce vomiting.

P405: Store locked up.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

P501: Dispose of contents in accordance with local, state or national legislation.

### Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CAS : Chemical Abstracts Service

DNEL : Derived No Effect Level

EC : European Community

EINECS : European Inventory of Existing Commercial Chemical Substances

IATA : International Air Transport Association

IBC : Intermediate Bulk Container

ICAO : International Civil Aviation Organization

IMDG : International Maritime Dangerous Goods

LTEL : Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

UN : United Nations

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

### Disclaimers

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