

**JAP PENETRANT – AEROSOL**

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) &amp; 2020/878

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Product Name JAP PENETRANT – AEROSOL

Unique Formula Identifier (UFI) PV00-X0J5-A00C-0HMD

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

Identified Use(s) A 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 None 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

Postal code S3 7AR

Telephone 0114 2738066

Fax 0114 2729842

E-mail info@johnsonandallen.co.uk

Office hours 08:30 - 17:00

**Only representative****Company Identification****Address**

DIMART S.r.l.

Via A. Einstein

13 Sedriano MI

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Postal code 20018

Telephone +390290310207

Fax +390290310208

**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**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.  
Repr. 2 :Suspected of damaging fertility or the unborn child.**2.2 Label elements**

According to Regulation (EC) No. 1272/2008 (CLP)

**Product Name**

JAP 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.

**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.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.

P331: Do NOT induce vomiting.

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

**Unique Formula Identifier (UFI)**

PV00-X0J5-A00C-0HMD

**2.3 Other hazards**

None.

**2.4 Additional Information**

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

**JAP PENETRANT – AEROSOL****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. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	None assigned	920-107-4 / 01-2119453414-43-XXXX	50-70	Asp. Tox. 1 H304 EUH066	GHS08
White mineral oil (petroleum)	8042-47-5	232-455-8 / 01-2119487078-27-XXXX	10-20	Not classified	None
Carbon dioxide	124-38-9	204-696-9	1-10	Press. Gas (Comp.) H280	GHS04
2-Naphthalenol,1-[4-(phenylazo)phenyl]azo]-, ar-heptyl ar,ar-methyl derivatives	92257-31-3	296-120-8 / 01-2120753600-62-XXXX	1-5	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
Distillates, petroleum, hydrotreated middle	64742-46-7	265-148-2 / 01-2119489867-12-XXXX	1-10	Asp. Tox. 1 H304 Skin Irrit. 2 H315 Acute Tox. 4 H332 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
Tetrahydrofurfuryl salicylate	2217-35-8			Acute Tox. 4 (H302): 500.000
Distillates, petroleum, hydrotreated middle	64742-46-7			Acute Tox. 4 (H332): 1.500

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

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. If symptoms persist, obtain medical attention.

Skin Contact

Wash with plenty of soap and water. Remove contaminated clothing and wash clothing before reuse. 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 waterspray, foam or dry chemical.

Unsuitable extinguishing media

None known.

**5.2 Special hazards arising from the substance or mixture**

Heating may cause pressure rise with risk of bursting.

**5.3 Advice for firefighters**

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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**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**

Do not release large quantities into the surface water or into drains.

**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. Do not pierce or burn, even after use. Provide adequate ventilation. Wear suitable gloves and eye/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke during work.

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

Protect from sunlight. Store locked up.  
Do not expose to temperatures exceeding 50°C/ 122°F.  
Stable under normal conditions.  
Strong oxidising agents, Natural rubber, Butyl rubber, Polystyrene.

Storage temperature

Storage life

Incompatible materials

**7.3 Specific end use(s)**

A 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** Wear protective clothing and gloves: Impervious gloves (EN 374). Recommended: Neoprene. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.



**Respiratory protection** Not normally required. Handling of larger amounts: A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



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Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Do not release large quantities into the surface water or into drains.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Physical state	Aerosol
Colour	Red.
Odour	Perceptible odour.
Melting point/freezing point	Not known.
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	Not known.
Flash Point	Not applicable.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not known.
pH	Not known.
Kinematic Viscosity	3.5 cSt @ 40°C
Solubility	Solubility (Water): Immiscible with water. Solubility (Other): Not known.
Partition coefficient n-octanol/water (log value)	Not known.
Vapour pressure	Not known.
Density and/or relative density	Relative density: 0.84
Relative vapour density	Not known.
Particle characteristics	Not known.

**9.2 Other information**

Explosive properties Pressurised container: May burst if heated.

**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, Natural rubber, Butyl rubber, Polystyrene.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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: LD50 (rabbit) > 5000 mg/kg (OECD 402).
Acute toxicity - Inhalation	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).
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 sensitiser.
Respiratory sensitization data	Calculation method : Not classified.

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Germ cell mutagenicity	Calculation method : Not classified. There is no evidence of mutagenic potential.
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 : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : May be fatal if swallowed and enters airways. No data. Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.

**11.2 Information on other hazards**

None.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Low toxicity to aquatic organisms.

**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**

Immiscible with water. The product is predicted to have low mobility in soil. The product is volatile and will partition into the atmosphere. Higher molecular weight hydrocarbons: The substance may adsorb onto soils and sediments.

**12.5 Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**12.6 Endocrine disrupting properties**

None known.

**12.7 Other adverse effects**

None.

**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 or ID 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

Emergency Action Code

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

Operation

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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 Maritime transport in bulk according to IMO instruments**

No information available

**SECTION 15: REGULATORY INFORMATION**

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation Not listed

REACH: ANNEX XIV list of substances subject to authorisation Not listed

REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics (EC No.: 920-107-4), Tetrahydrofurfuryl salicylate (2217-35-8)

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

**National regulations**

Other Not known.

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**15.2 Chemical Safety Assessment**

Not applicable.

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1, 2, 15

**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  
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 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.  
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.  
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.  
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.

Precautionary Statement(s)

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



## JAP PENETRANT – AEROSOL

CAS : Chemical Abstracts Service  
CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
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 Regulation (EC) No. 1272/2008 (CLP)  
data used to compile the SDS  
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