



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	JAP PENETRANT – 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)	A solvent removable, visible Red Dye Penetrant for use in the Dye Penetrant Inspection Process BS EN ISO 571-1 (BS EN ISO 3452-2 Sensitivity level 2).
	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 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. Repr. 2; Suspected of damaging fertility or the unborn child. Repeated exposure may cause skin dryness or cracking.
2.2 Label elements	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) JAP PENETRANT – AEROSOL.
	Hazard Pictogram	 
	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. EUH066: Repeated exposure may cause skin dryness or cracking.

JAP PENETRANT - AEROSOL

Precautionary statement(s)

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.
 P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P331: Do NOT induce vomiting.

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)	%WW	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	50-70	None assigned	920-107-4	01-2119453414-43-0001	GHS08, Asp. Tox. 1; H304, EUH066
White mineral oil (petroleum)	10-20	8042-47-5	232-455-8	01-2119487078-27-0000	None
Carbon dioxide	1-10	124-38-9	204-696-9	None assigned	GHS04, Press. Gas; H280
Distillates, petroleum, hydrotreated middle	1-10	64742-46-7	265-148-2	01-2119489867-12-0000	GHS08, Asp. Tox. 1; H304
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar,ar-methyl derivatives	1-5	92257-31-3	296-120-8	None assigned	GHS08, Repr. 2; H361, STOT RE 2; H373, Aquatic Chronic 4; H413
Tetrahydrofurfuryl salicylate	1-5	2217-35-8	218-711-1	None assigned	GHS07, Acute Tox. 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335

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 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

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. Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention.

5. SECTION 5: FIRE-FIGHTING MEASURES

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 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

Ensure adequate ventilation. Wear suitable gloves and eye/face 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

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.

7. 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. See Section: 8. Do not eat, drink or smoke during work. Wash hands thoroughly after handling. Store locked up. Protect from sunlight.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage Temperature Ambient. Do not expose to temperatures exceeding 50°C/ 122°F.
- Storage Life Stable under normal conditions.
- Incompatible materials Strong oxidising agents, Natural rubber, Butyl rubber, Polystyrene.
- 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 (BS EN ISO 3452-2 Sensitivity level 2).

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
Carbon dioxide	124-38-9	5000	9150	15000	27400	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** Provide adequate ventilation.
- 8.2.2 Personal protection equipment**
- Eye/face protection  Wear suitable eye/face protection.
- Skin protection (Hand protection/ Other)  Wear suitable gloves. Wear: Neoprene.
- Respiratory protection  No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
- Thermal hazards  Not applicable.

JAP PENETRANT - AEROSOL

8.2.3 Environmental Exposure Controls

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

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Red.
Odour	Perceptible odour.
Odour Threshold	Not available.
pH	Not applicable.
Melting Point/Freezing Point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash Point	>100 °C
Evaporation rate	Not applicable.
Flammability (solid, gas)	Flammable aerosol.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.84
Solubility(ies)	Immiscible with water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not available.
Kinematic Viscosity	3.5 cSt @ 40 °C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

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, Natural rubber, Butyl rubber, Polystyrene.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rat): > 5000mg/kg (OECD401).
Inhalation	Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LC50 (rat) 4hour(s): > 4951mg/m ³ (OECD403).
Skin Contact	Low acute toxicity. Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics: LD50 (rabbit): > 5000mg/kg (OECD402).
Eye Contact	Low acute toxicity.

JAP PENETRANT - AEROSOL

Skin corrosion/irritation	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation	Non-irritant.
Respiratory or skin sensitisation	Not expected to be a skin or respiratory sensitiser.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	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	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 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	UN1950
14.2 UN Proper Shipping Name	AEROSOLS, Flammable.
14.3 Transport hazard class(es)	
ADR/RID Class	2
IMDG Class	2.1
ICAO/IATA	2.1
Passenger and Cargo Aircraft Limited Quantities	
Packing Instructions	Y203
Passenger and Cargo Aircraft Limited Quantities	
Max net Qty	30 kg G
Cargo Aircraft Packing Instructions	203
Cargo Aircraft Max net Qty	150 kg
Emergency Response Guidebook (ERG) Code	10L
ADR Classification Code	5F
IMDG EmS	F-D, S-U
Packing Group	Not applicable
Labels	2.1

JAP PENETRANT - AEROSOL



Special Provisions	190 327 344 625
Limited Quantities (LQ) Inner packaging	1 L
14.4 Environmental hazards	Not classified as a Marine Pollutant.
14.5 Special precautions for user	
Tunnel Restriction Code	D
14.6 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable

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.
REACH: ANNEX IV Exemptions from the Obligation to Register in accordance with Article 2(7)(a)	Listed: Carbon dioxide (CAS No.: 124-38-9)
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: 2, 3, 4, 5, 7, 9, 11, 14, 15, 16.

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
OECD	Organisation for Economic Cooperation and Development

JAP PENETRANT - AEROSOL

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

Hazard statement(s) and Precautionary statement(s)

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.
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.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state or national legislation.

Hazard pictogram(s)

GHS04



GHS08



GHS07



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Annex to the extended Safety Data Sheet (eSDS)

Not applicable.