

JAD DEVELOPER - AEROSOL

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

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

1.1 Product identifier

JAD DEVELOPER - AEROSOL **Product Name** Unique Formula Identifier (UFI) WP00-X05C-Q00C-PUF8

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

For use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS EN Identified Use(s)

ISO 3452-2:2006 Sensitivity level 2 when used in conjunction with penetrant family

products).

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

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 DIMART S.r.I. Address Via A. Einstein 13 Sedriano MI

Italy

20018 Postal code

+390290310207 Telephone +390290310208 Fax

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 3: Pressurised container: May burst if heated.

Skin Irrit. 2: Causes skin irritation. Eye Irrit. 2: Causes serious eye irritation. STOT SE 3: May cause drowsiness or dizziness.

Carc. 2: Suspected of causing cancer.

2.2 Label elements

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

JAD DEVELOPER - AEROSOL Product Name

Hazard Pictogram(s)



GHS07

GHS08

Signal Word(s) Warning

Hazard Statement(s) H229: Pressurised container: May burst if heated.

H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H351: Suspected of causing cancer.

P201: Obtain special instructions before use. Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P251: Do not pierce or burn, even after use. P261: Avoid breathing mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

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

122°F

Unique Formula Identifier (UFI) WP00-X05C-Q00C-PUF8

2.3 Other hazards

None.

Page: 1 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - 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	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
Dichloromethane	75-09-2	200-838-9 / 01-2119480404-41-XXXX	70-90	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H336 Carc. 2 H351	GHS08 GHS07
Carbon dioxide	124-38-9	204-696-9	1-10	Press. Gas (Comp.) H280	GHS04
Alcohols, C12-13, ethoxylated	66455-14-9	500-165-3	<1	Eye Irrit. 2 H319	GHS07

Contains no non-classified vPvB substances or 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

Remove person to fresh air and keep comfortable for breathing. Call a POISON Inhalation

CENTRE/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse. Wash with plenty of water. Skin Contact

If skin irritation occurs: Get medical advice/attention.

Eye Contact 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.

Unlikely route of exposure. Indestion 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. May cause drowsiness or

dizziness. Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIREFIGHTING MEASURES

Pressurised container: May burst if heated.

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None known.

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: Phosgene, Hydrogen chloride, Carbon

monoxide, Carbon dioxide.

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.

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

Stop leak if safe to do so. Provide 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.

> Page: 2 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - AEROSOL

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 pierce or burn, even after use. Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Avoid breathing mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep

container tightly closed.

Do not expose to temperatures exceeding 50°C/122°F. Storage temperature

Storage life Stable under normal conditions.

Strong oxidising agents, Alkalis, Zinc, Aluminium. Incompatible materials

7.3 Specific end use(s)

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).

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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Dichloromethane	75-09-2	100	353	200	706	BMGV, Sk
Carbon dioxide	124-38-9	5000	9150	15000	27400	

Region

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

Remark

BMGV

Biological monitoring guidance values are listed in Table 2. Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic

toxicity

Biological Exposure Indices								
Substances	CAS Number	Sampling	Tissues	Control	parameters	Biological monitorir	ng guidance value	Comments
Dichloromethane	75-09-2	Post shift	end-tidal breath	carbon	monoxide	30 ppm		

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. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear suitable protective clothing and gloves. Impervious gloves (EN 374). Breakthrough time of the glove material: refer to the information provided by the

gloves' producer.



Respiratory protection

Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. 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.

Page: 3 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - AEROSOL

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state Aerosol Colour White.

Odour Characteristic odour. Melting point/freezing point -94.9°C (Dichloromethane) Boiling point or initial boiling point and 39.8°C (Dichloromethane)

boiling range

Flammability Non-flammable. Lower and upper explosion limit Not known. Flash Point Not applicable. 624°Ċ Auto-ignition temperature Not known. Decomposition Temperature

Not known. Kinematic Viscosity Not known.

Solubility (Water): Insoluble in water. Solubility

Solubility (Other): Not known. 1.25 (Dichloromethane)

Partition coefficient n-octanol/water (log

value)

584 hPa (352 mm Hg) @ 25°C (Dichloromethane) Vapour pressure Density and/or relative density Density: 1.32 g/cm3 @ 25°C (Dichloromethane)

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

Skin corrosion/irritation

Keep away from heat and direct sunlight.

10.5 Incompatible materials

Strong oxidising agents, Alkalis, Zinc, Aluminium.

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.

Dichloromethane: LD50 (rat) >2000mg/kg

Acute toxicity - Skin Contact Calculation method: Not classified.

Low acute toxicity.

Dichloromethane: LD50 (rat) >2000mg/kg

Acute toxicity - Inhalation Calculation method: Not classified.

Low acute toxicity.

Effects and Symptoms: Headache, dizziness, nausea and vomiting. Causes

shortness of breath.

Dichloromethane: LC50 (rat) 4hour(s) = 49000mg/m³ Calculation method: Causes skin irritation. No data. Calculation method: Causes serious eye irritation. No data.

Serious eye damage/irritation Skin sensitization data Calculation method: Not classified.

It is not a skin sensitiser.

Respiratory sensitization data Calculation method: Not classified. Germ cell mutagenicity Calculation method: Not classified.

There is no evidence of mutagenic potential.

Page: 4 - 8 Revision: 11 - Replaces: 10

JAD DEVELOPER - AEROSOL

Carcinogenicity Suspected of causing cancer. No data.

Dichloromethane:

A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or

unlikely routes or levels of exposure.

Reproductive toxicity None anticipated. Not classified. Lactation

May cause drowsiness or dizziness. STOT - single exposure

Effects and Symptoms: Headache, dizziness, nausea and vomiting.

STOT - repeated exposure None anticipated. Aspiration hazard Not classified.

11.2 Information on other hazards

None.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Low toxicity to invertebrates.

Toxicity - Aquatic invertebrates Toxicity - Fish Low toxicity to fish.

Dichloromethane: LC50 (96 hour) = 193 mg/l

Low toxicity to algae. Toxicity - Algae **Toxicity - Sediment Compartment** Not classified. Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

The product is biodegradable. The product is unlikely to persist in the environment.

12.3 Bioaccumulative potential

The product has no potential for bioaccumulation. Dichloromethane: Bioconcentration factor (BCF): 2.0-5.4

12.4 Mobility in soil

The product is volatile and will partition into the atmosphere. The product has high

mobility in soil.

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

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 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 5A

Special Provisions 190 327 344 625

Limited Quantities 1 L **Excepted Quantities** FO **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

> Page: 5 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - AEROSOL

Vehicle for Tank Carriage

ADR Transport Category 3 **Tunnel Restriction Code** Ε Special Provisions for Carriage -

Packages

Special Provisions for Carriage - Bulk

Special Provisions for Carriage - Loading, CV9 CV12

Unloading and Handling

Special Provisions for Carriage -

Operation ADR HIN **IMDG**

IMDG Class

Special Provisions 190 327 344 625

Limited Quantities 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 Y203

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 30Kg

Quantities Max net Qty

Passenger and Cargo Aircraft Packing 203 Instructions

Passenger and Cargo Aircraft Max net

Cargo Aircraft Packing Instructions 203 Cargo Aircraft Max net Qty 150Kg

Special Provisions A98, A145, A167, A802

Emergency Response Guidebook (ERG) 2L

Code Labels

Labels



75Kg

14.4 Packing group

Packing group

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 Not listed

Candidate List of Substances of Very

High Concern for Authorisation

REACH: ANNEX XIV list of substances

Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the manufacture, placing on the market and

Dichloromethane (75-09-2), Alcohols, C12-13, ethoxylated (66455-14-9)

use of certain dangerous substances, mixtures and articles

Community Rolling Action Plan (CoRAP) Dichloromethane (75-09-2)

Regulation (EU) N° 2019/1021 of the Not listed

> Page: 6 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - AEROSOL

European Parliament and of the Council on persistent organic pollutants Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals

Not listed

Not listed

National regulations

Other

Not known.

15.2 Chemical Safety Assessment

Not applicable.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1, 2

LEGEND

Hazard Pictogram(s)





GHS04: GHS: Gas cylinder

Aerosol 3: Aerosol, Category 3 Hazard classification

Press. Gas (Comp.): Gases under pressure, Compressed gas

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

Carc. 2: Carcinogenicity, Category 2

H229: Pressurised container: May burst if heated. Hazard Statement(s)

H280: Contains gas under pressure; may explode if heated.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

H351: Suspected of causing cancer.

Precautionary Statement(s) 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. P251: Do not pierce or burn, even after use.

P261: Avoid breathing mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTRE/doctor if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention. P337+P313: If eye irritation persists: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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. ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Acronyms

Page: 7 - 8 Revision: 11 - Replaces: 10



JAD DEVELOPER - AEROSOL

Goods by Road

ATE: Acute Toxicity Estimate 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

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose.

Johnson and Allen Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is

excluded except to the extent that exclusion is prevented by law.

Johnson and Allen Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

> Page: 8 - 8 Revision: 11 - Replaces: 10