

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	JAD DEVELOPER - AEROSOL			
	bstance or mixture and uses advised against			
Identified Use(s)	For use in the Dye Penetrant Inspection Process BS EN ISO 571-1:1997 (BS E ISO 3452-2:2006 Sensitivity level 2 when used in conjunction with penetrant fa			
	products).	unction with penetrant family		
Uses Advised Against	Not known.			
1.3 Details of the supplier of the safet	y data sheet			
Manufacturer				
Company Identification	Johnson and Allen Ltd			
Address of Manufacturer	Neocol Works			
	Smithfield			
	Sheffield			
Postal code	S3 7AR			
Telephone	0114 2738066			
Fax E-mail	0114 2729842 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			
Postal code	20018			
Telephone	+390290310207			
Fax	+390290310208			
1.4 Emergency telephone number				
Company NHS Direct	0114 2738066 (UK office hours 08.30-17.00) +44 111			
SECTION 2: HAZARDS IDENTIFICATIO	DN			
2.1 Classification of the substance or	mixture			
GB CLP Regulation, UK SI 2019/720 and	d Aerosol 3 : Pressurised container: May burst if heated.			
GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Skin Irrit. 2 :Causes skin irritation.			
	Skin Irrit. 2 :Causes skin irritation. Eye Irrit. 2 :Causes serious eye irritation.			
	Skin Irrit. 2 :Causes skin irritation. Eye Irrit. 2 :Causes serious eye irritation. STOT SE 3 :May cause drowsiness or dizziness.			
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UK SI 2020/1567 2.2 Label elements Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s) Precautionary Statement(s) 2.3 Other hazards	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. According to GB CLP Regulations, UK SI 2019/720 an JAD DEVELOPER - AEROSOL GHS08 GHS08 Warning 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. P210: Keep away from heat, hot surfaces, sparks, open 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 te 122°F.	n flames and other ignition		



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 Pictogram(s)
Dichloromethane	75-09-2	200-838-9	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

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

For full text of H/P Statements see section 16.				
SECTION 4: FIRST AID MEASURES				
4.1 Description of first aid measure	S			
Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.			
Skin Contact	Take off contaminated clothing and wash it before reuse. Wash with plenty of water. 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.			
Ingestion	Unlikely route of exposure.			
4.2 Most important symptoms and				
	Causes skin irritation. Causes serious eye irritation. May cause drowsiness or			
4.2 Indication of any immediate me	dizziness. Suspected of causing cancer.			
4.3 Indication of any immediate me	dical attention and special treatment needed IF exposed or concerned: Get medical advice/attention.			
	IF exposed of concerned. Get medical advice/attention.			
SECTION 5: FIREFIGHTING MEASU	RES			
Pressurised container: May burst if he	ated.			
5.1 Extinguishing media				
Suitable Extinguishing media	As appropriate for surrounding fire.			
Unsuitable extinguishing media	None.			
5.2 Special hazards arising from the				
	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			
contained as any other solvent spill.	v to present spillage or leakage hazard. In case of rupture, released content should be			

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 containn	nent 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. Pressurised container - 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, inclue	ding any incompatibilities
	Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	Do not expose to temperatures exceeding 50°C/ 122°F.
Storage life	Stable under normal conditions.
Incompatible materials 7.3 Specific end use(s)	Strong oxidising agents, Alkalis, Zinc, Aluminium.
-	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/m ³)	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	Source
United Kingdom	UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)
Remark BMGV Sk	Notes 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 monitoring guidance value	Comments
Dichloromethane	75-09-2	Post shift	end-tidal breath	carbon monoxide	30 ppm	

8.2 Exposure controls

8.2.1. Appropri	ate 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. Persona	I protection equipment	
	Eye Protection	Wear eye protection with side protection (EN166).
	Skin protection	Wear 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and o	chemical	properties

Aerosol	
Colour: W	nite.
Character	stic odour.
Not establ	shed.
Not knowr	
-94.9°C (E	ichloromethane)
	chloromethane)
	, able.
Not knowr	
Non-flamn	able.
xplosive Not knowr	
•	
584 hPa (52 mm Hg) @ 25°C (Dichloromethane)
Not knowr	· · ·
1.32 @ 25	°C (Dichloromethane)
Not knowr	
Solubility (Water): Insoluble in water.
Solubility	Other): Not known.
l/water 1.25 (Dich	oromethane)
624°C	
(°C) Not knowr	
Not knowr	
Pressurise	d container: May burst if heated.
Not oxidis	ng.
	-
None.	
Not applic Not knowr Non-flamn xplosive Not knowr 1.32 @ 25 Not knowr Solubility (Solubility (Solubility (Solubility (C) Not knowr Not knowr Pressurise Not oxidis	able. able. 52 mm Hg) @ 25°C (Dichloromethane) C (Dichloromethane) Water): Insoluble in water. Other): Not known. oromethane) d 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 rea	ctions	
-	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, Alkalis, Zinc, Aluminium.	
10.6 Hazardous decomposition p		
···· ··· ···· ··· ··· ··· ··· ··· ···	No hazardous decomposition products known.	
SECTION 11: TOXICOLOGICAL IN	FORMATION	
11.1 Information on toxicological	effects	
Acute toxicity - Ingestion	Low oral toxicity.	
, .	Dichloromethane: LD50 (rat) >2000 mg/kg	
Acute toxicity - Skin Contact	Low acute toxicity.	
	Dichloromethane: LD50 (rat) >2000 mg/kg	
Acute toxicity - Inhalation	Low acute toxicity.	
	Effects and Symptoms: Headache, dizziness, nausea and vomiting. Causes	
	shortness of breath.	
	Dichloromethane: LC50 (rat) 4hour(s) = 49000 mg/m^3	
Skin corrosion/irritation	Calculation method : Causes skin irritation. No data.	
Serious eye damage/irritation	Calculation method : Causes serious eye irritation. No data.	
Skin sensitization data	Calculation method : Not classified.	
	It is not a skin sensitiser.	
Respiratory sensitization data	Calculation method . Not classified	

Respiratory sensitization data Germ cell mutagenicity

Calculation method : Not classified. There is no evidence of mutagenic potential.

Calculation method : Not classified.



Carcinogenicity	Calculation method : 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	Calculation method : Not classified. No evidence of reproductive effects.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : May cause drowsiness or dizziness. No data. Effects and Symptoms: Headache, dizziness, nausea and vomiting. Causes
	shortness of breath.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard 11.2 Other information	Calculation method : Not classified.
	Not known.
SECTION 12: ECOLOGICAL INFOR	MATION
12.1 Toxicity	
Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.

Toxiony Tion				
	Dichloromethane: LC50 (96 hour) = 193 mg/l			
Toxicity - Algae	Low toxicity to algae.			
Toxicity - Sediment Compartment	Not classified.			
Toxicity - Terrestrial Compartment	Not classified.			
12.2 Persistence and degradability				
0 ,	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 Other adverse effects				
	Not known.			
SECTION 13: DISPOSAL CONSIDERATIONS				
13.1 Waste treatment methods				

15.1 Waste treatment methous	
	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. 14.2 UN proper shipping name UN proper shipping name 14.3 Transport hazard class(es) ADR/RID ADR/RID Class ADR Classification Code Special Provisions Limited Quantities Excepted Quantities Emergency Action Code 	1950 AEROSOLS 2 5A 190, 327, 344, 625 1 L E0
Mixed Packing Instructions for Packages Special Packing Provisions for Packages Mixed Packing Instructions for Packages Packing Instructions for Portable Tanks Special Provisions for Portable Tanks Tank Code for Tanks	PP87 RR6 L2



Special Provisions for Tanks	
Vehicle for Tank Carriage	
ADR Transport Category	3
Tunnel Restriction Code	E
Special Provisions for Carriage -	V14
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	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 SW1 SW22
Stowage and Handling Segregation	SG69
Marine Pollutant	0000
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	200
Passenger and Cargo Aircraft Max net	75Kg
Qty	0
Cargo Aircraft Packing Instructions	203
Cargo Aircraft Max net Qty	150Kg
Special Provisions	A98, A145, A167, A802
Emergency Response Guidebook (ERG) Code	2L
Labels	
Labels	2.2
	$\langle \rangle$
14.4 Packing group	

Packing group 14.5 Environmental hazards Environmental hazards 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

Not classified as a Marine Pollutant.

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 RÉACH Authorisation List (Annex Not listed XIV) list of substances subject to authorisation

1-16



JAD DEVELOPER - AEROSOL

UK REACH Restrictions List (Annex XVII) Dichloromethane (75-09-2), Alcohols, C12-13, ethoxylated (66455-14-9) Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles UK REACH Rolling Action Plan (RAP) Not listed The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as Not listed amended The Ozone-Depleting Substances and Not listed Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019/583) 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) Dichloromethane (75-09-2) 15.2 Chemical Safety Assessment United Kingdom Not applicable. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)			
	GHS08	GHS07	
Henry de la college d'ann	GHS04: GHS: Gas cylinder		
Hazard classification	Aerosol 3 : Aerosol, Category 3 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		
Hazard Statement(s)	H229: Pressurised container: May burst if heated. 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 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-vent		
	P280: Wear protective gloves/protective of		
	P302+P352: IF ON SKIN: Wash with ple	e , i i	
	P304+P340: IF INHALED: Remove pers breathing.		
	P305+P351+P338: IF IN EYES: Rinse ca Remove contact lenses, if present and ea	asy to do. Continue rinsing.	
	P308+P313: IF exposed or concerned: C P312: Call a POISON CENTRE/doctor if		
	P321: Specific treatment (see Medical Ac		
	P332+P313: If skin irritation occurs: Get	,	



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. ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals STEL : Short term exposure limit STOT : Specific Target Organ Toxicity vPvB : very Persistent and very Bioaccumulative Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Disclaimers

data used to compile the SDS

Acronyms

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