

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

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

1.1	Product identifier	
	Product Name	JAC 2 - BULK.
	CAS No.	None assigned.
	EINECS No.	921-728-3
	REACH Registration No.	01-2119471305-42-XXXX
1.2	Relevant identified uses of the substance or	
	mixture and uses advised against	
	Identified 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). Solvent.
	Uses advised against	This product is not recommended for any industrial, professional or consumer use other than the Identified Uses above.
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
	Fax	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 9	SECTION 2: HAZARDS IDENTIFICATION	

2. SECTION 2: HAZARDS IDENTIFICATION Classification of the substance or mixture

2.1.1	Regulation (EC) No. 1272/2008 (CLP)	 Flam. Liq. 2; Highly flammable liquid and vapour. Asp. Tox. 1; May be fatal if swallowed and enters airways. Skin Irrit. 2; Causes skin irritation. STOT SE 3; May cause drowsiness or dizziness. Aquatic Chronic 2; Toxic to aquatic life with long lasting effects.
2.1.2	Directive 67/548/EEC & Directive 1999/45/EC	 F; Highly flammable. Xn; Harmful: may cause lung damage if swallowed. Xi; Irritating to skin. N; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

2.1



Label elements

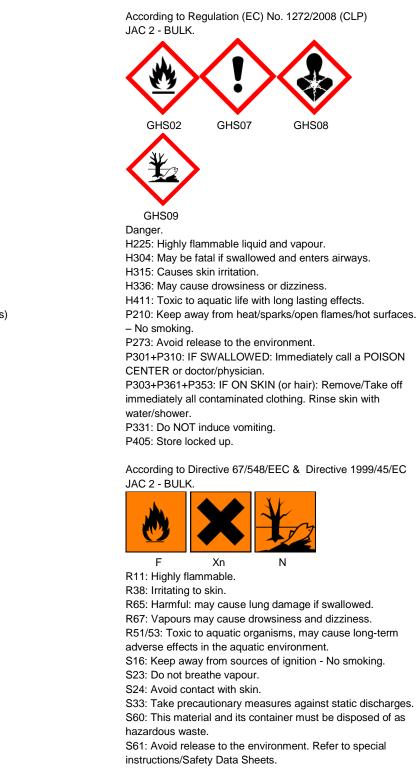
Label elements

Hazard Pictogram

Product Name

2.2 2.2.1

JAC 2 - BULK



Signal word(s) Hazard statement(s)

Precautionary statement(s)

2.2.2 Label elements Product Name Hazard Symbol

Risk Phrases

Safety Phrases



2.3 Other hazards

None.

2.4 Additional Information

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

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Hydrocarbons, C7-C9 isoalkanes	100	None assigned	921-728-3	01-2119471305-42- XXXX	GHS02, Flam. Liq. 2; H225, GHS07, Skin Irrit. 2; H315, STOT SE 3; H336, GHS08, Asp. Tox. 1; H304, GHS09, Aquatic Chronic 2; H411

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases
Hydrocarbons, C7-C9 isoalkanes	100	None assigned	921-728-3	01-2119471305-42- XXXX	F; R11, Xn; R65, Xi; R38, N; R51/53, R67

3.2 Additional Information

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

4. SECTION 4: FIRST AID MEASURES



4.1	Description of first aid measures	
	Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
	Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
	Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open. Get medical attention if eye irritation develops or persists.
	Ingestion	IF SWALLOWED: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2	Most important symptoms and effects, both acute and delayed	Inhalation: Headache, Dizziness, Drowsiness, Nausea. Skin Contact: Pain, Redness, Swelling.
		Aspiration into the lungs may cause chemical pneumonitis, which can be fatal.
4.3	Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically.



5. SECTION 5: FIRE-FIGHTING MEASURES

Highly flammable liquid and vapour.

- 5.1 Extinguishing Media Suitable Extinguishing Media Unsuitable Extinguishing Media
- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for fire-fighters

In case of fire: Use CO2, dry chemical, or foam. Water jet spray. Hazardous decomposition product(s): Smoke, Oxides of carbon. The vapour is heavier than air and spreads along ground. In

case of fire, stop leak if safe to do so. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Eliminate sources of ignition. Stop leak if safe to do so. Avoid breathing vapours. Avoid contact with skin. Wear protective gloves/protective clothing/eye protection/face protection.
6.2	Environmental precautions	Avoid release to the environment.
6.3	Methods and material for containment and cleaning up	Adsorb spillages onto sand, earth or any suitable adsorbent material. Collect spillage. Transfer to a lidded container for disposal or recovery.
6.4	Reference to other sections	See Also Section 8 and 13.

7. SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any

7.1 Precautions for safe handling

incompatibilities

Storage Life

Storage Temperature

Incompatible materials

Specific end use(s)

Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapours. Avoid prolonged skin contact. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.

Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool. Ambient.

Stable under normal conditions.

Strong oxidising agents.

- 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).
- Solvent.

7.2

7.3



8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

ſ	SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m ³)	Note
	Hydrocarbons, C7-C9 isoalkanes	None assigned	-	-	-	-	Not established

8.1.2 Biological limit value

Not established.

8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Industry - Long Term – Local effects	-	-	-
Industry - Long Term - Systemic effects	-	-	-
Industry - Short term - Local effects	-	-	-
Industry - Short term - Systemic effects	-	-	-
Professional - Long Term - Local effects	-	2035mg/m ³	773mg/kg/bw/day
Professional - Long Term – Systemic effects	-	-	-
Professional - Short term - Local effects	-	-	-
Professional - Short term - Systemic effects	-	-	-
Consumer - Long Term - Local effects	699mg/kg/bw/day	608mg/m ³	699mg/kg/bw/day
Consumer - Long Term - Systemic effects	-	-	-
Consumer - Short term - Local effects	-	-	-
Consumer - Short term - Systemic effects	-	-	-

	PNEC
Aquatic Compartment - Fresh water	-
Aquatic Compartment - Sea water	-
Terrestrial Compartment	-
Atmospheric Compartment	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Personal protection equipment Eye/face protection



Skin protection (Hand protection/ Other)



Respiratory protection



Thermal hazards 8.2.3 Environmental Exposure Controls Provide adequate ventilation.

Wear protective eye glasses for protection against liquid splashes.

Wear impervious gloves (EN374).

In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Not applicable. Avoid release to the environment.



9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties Appearance Colour Odour Odour Threshold pН Melting Point/Freezing Point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Density Solubility(ies) Partition coefficient: n-octanol/water Auto-ignition temperature **Decomposition Temperature** Kinematic Viscosity Viscosity Explosive properties Oxidising properties Other information Pour point Molecular weight

Clear, Liquid. Colourless. Isoparaffinic hydrocarbon. Not available. Not available. Not available. 90 - 150°C (194 - 302°F) <10°C (50°F) 1.6 (n-butyl acetate = 1) Flam. Liq. 2; Highly flammable liquid and vapour. 0.7 - 6.3Vol-% <10kPa (75mm Hg) @ 25°C >1 @ 101kPa (Air = 1) 0.651 - 0.751 @ 15°C 650 - 750kg/m³ Slightly soluble in: Water. Not available. >200°C (392°F) Not available. Not available. 0.5 - 1.2cSt (0.5 - 1.2mm²/s) @ 20°C Not explosive. Not oxidising.

<-20°C (-4°F) 119 No. 0.00118v/v/°C

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

9.2

10.2 Chemical stability

Hygroscopic

- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials
- 10.6 Hazardous Decomposition Product(s)

Coefficient of thermal expansion

11. SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- 11.1.1 Substances Acute toxicity Ingestion

Inhalation

Skin Contact

Eye Contact Skin corrosion/irritation Stable under normal conditions. Stable under normal conditions. Stable under normal conditions. Keep away from heat and sources of ignition. Strong oxidising agents. Smoke, Oxides of carbon.

Low acute toxicity. LD50(rat) = 7100 - 7800mg/kg (OECD 401) Low acute toxicity. LC50(rat) 4hour(s) > 21mg/l (OECD 403) Low acute toxicity. LD50 (rabbit) >2000mg/kg (OECD 402) Low acute toxicity. Skin Irrit. 2; Causes skin irritation. Irritating to skin. (OECD 404)



Serious eye damage/irritation	Not classified.
Respiratory or skin sensitization	Not expected to be a respiratory sensitiser.
	It is not a skin sensitiser. (OECD 406)
Germ cell mutagenicity	Negative. (OECD 471, 473, 476, 478)
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Studies in animals have shown that exposures produce no
	teratogenic effects.
	NOAEL (Developmental Toxicity): 9000ppm (OECD 414)
	NOAEL (Reproductive toxicity): 9000ppm (OECD 416)
STOT - single exposure	STOT SE 3; May cause drowsiness or dizziness.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Asp. Tox. 1: May be fatal if swallowed and enters airways.
	Aspiration into the lungs may cause chemical pneumonitis,
	which can be fatal.
Other information	None.

11.2

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Aquatic Chronic 2; Toxic to aquatic life with long lasting effects. Aquatic invertebrates: EC50 (Daphnia magna)(48 hour) = 0.4mg/l
12.2	Persistence and degradability	Biodegradable. Unlikely to persist. Inherent Biodegradation: 51.3% (28 days)(OECD301F)
12.3	Bioaccumulative potential	No information available.
12.4	Mobility in soil	Slightly soluble in: Water. The substance is predicted to have low mobility in soil. The substance is volatile and will partition into the atmosphere.
12.5 12.6	Results of PBT and VPVB assessment Other adverse effects	Not classified as PBT or vPvB. None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of contents/container to: Suitable incineration plant. 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.
	Waste code (Europe)	08 XX XX Note: Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

14. SECTION 14: TRANSPORT INFORMATION

14.1	UN number	UN 3295
14.2	UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S.
14.3	Transport hazard class(es)	3
14.4	Packing Group	II
14.5	Environmental hazards	
	ADR/RID	Environmentally hazardous substance (EHS).
	IMDG	Marine Pollutant (MP).
	ICAO/IATA	Not applicable.
14.6	Special precautions for user	None.
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.



14.8	Additional Information		
	ADR Classification Code	F1	
	ADR Label	3	
	Hazard Identification Number	33	
	Hazchem EAC	3YE	
	IMDG Code	EmS: F-E, S-D	

15. SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	.1.1 EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High	Not listed.
	Concern for Authorisation	
	REACH: ANNEX XVII Restrictions on the	Not listed.
	manufacture, placing on the market and use of	
	certain dangerous substances, mixtures and	
	articles	
	REACH: ANNEX XIV List of substances subject to	Not listed.
	authorisation	
	Community Rolling Action Plan (CoRAP);	Not listed.
	Draft 29/02/2012	
15.1.2	National regulations	None known.
15.2	Chemical Safety Assessment	Not available.

16. SECTION 16: OTHER INFORMATION

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

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
OECD	Organization for Economic Cooperation and Development
NOAEL	No Observed Adverse Effect Level
Aquatic Chronic 2	Hazardous to the aquatic environment Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 2	Flammable liquid Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
F	Highly flammable
Ν	Dangerous for the environment.
Xi	Irritant
Xn	Harmful

Risk Phrases and Safety Phrases

R11	Highly flammable.
R38	Irritating to skin.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



- S38 In case of insufficient ventilation, wear suitable respiratory equipment.
- S43 In case of fire: Use CO2, dry chemical, or foam.
- S57 Use appropriate container to avoid environmental contamination.
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- S3/9/14 Keep in a cool, well-ventilated place away from: Heat and direct sunlight.

Hazard statement(s) and Precautionary statement(s)

H225	Highly flammable liquid and vapour.
------	-------------------------------------

- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P362 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P501 Dispose of contents/container to: Suitable incineration plant.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P370+P378 In case of fire: Use CO2, dry chemical, or foam.
- P403+P235 Store in a well-ventilated place. Keep cool.

Hazard pictogram(s) and Hazard Symbol F GHS02 Image: Comparison of the symbol Xi GHS07 Image: Comparison of the symbol Xi GHS08 Image: Comparison of the symbol Xn GHS09 Image: Comparison of the symbol N











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.

Annex to the extended Safety Data Sheet (eSDS)

No information available.