

JAC 2 - BULK




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	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)	<ul style="list-style-type: none"> • For use in the Dye Penetrant Inspection Process BS EN ISO 571-1 (BS EN ISO 3452-2 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. 0114 2738066 0114 2729842 info@johnsonandallen.co.uk
	Telephone	0114 2738066
	Fax	0114 2729842
	E-Mail (competent person)	info@johnsonandallen.co.uk
1.4 Emergency telephone number	Company	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)	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.
2.2 Label elements	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) JAC 2 - BULK.
	Hazard Pictogram	  

GHS02

GHS07

GHS08

JAC 2 - BULK



GHS09

Signal word(s)

Danger.

Hazard 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.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273: Avoid release to the environment.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P331: Do NOT induce vomiting.
P405: Store locked up.

Precautionary statement(s)

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

3.1 Substances

EC Classification No. 1272/2008

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

3.2 Mixtures

Not applicable.

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

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Skin Contact

Take off contaminated clothing and wash it before reuse. Take off immediately all contaminated clothing. Rinse skin with 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

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

In case of fire: Use CO₂, dry chemical, or foam.
Water jet spray.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition product(s): Smoke, Oxides of carbon.

5.3 Advice for fire-fighters

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

Absorb 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

- 7.1 Precautions for safe handling** Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapours. Avoid prolonged skin contact. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool.
- Storage Temperature Ambient.
- Storage Life Stable under normal conditions.
- Incompatible materials Strong oxidising agents.
- 7.3 Specific end use(s)**
- For use in the Dye Penetrant Inspection Process BS EN ISO 571-1 (BS EN ISO 3452-2 Sensitivity level 2 when used in conjunction with penetrant family products).
 - Solvent.

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
Hydrocarbons, C7-C9 isoalkanes	None assigned	-	-	-	-	Not established

Region Source
 EU EU Occupational Exposure Limits
 United Kingdom UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)

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	-

JAC 2 - BULK

Terrestrial Compartment	-
Atmospheric Compartment	-

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/face protection



Wear protective eye glasses for protection against liquid splashes.

Skin protection (Hand protection/ Other)



Wear impervious gloves (EN374).
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Protective gloves should be replaced at first signs of wear.

Material: Nitrile rubber

Break through time: > 480 min

Glove thickness: > 0.38 mm

Protective index: Class 6

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

Respiratory protection



Thermal hazards

Not applicable.

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Clear, Liquid.

Colour

Colourless.

Odour

Isoparaffinic hydrocarbon.

Odour Threshold

Not available.

pH

Not available.

Melting Point/Freezing Point

Not available.

Initial boiling point and boiling range

90 - 150°C (194 - 302°F)

Flash point

<10°C (50°F)

Evaporation rate

1.6 (n-butyl acetate = 1)

Flammability (solid, gas)

Flam. Liq. 2; Highly flammable liquid and vapour.

Upper/lower flammability or explosive limits

0.7 – 6.3Vol-%

Vapour pressure

<10kPa (75mm Hg) @ 25°C

Vapour density

>1 @ 101kPa (Air = 1)

Relative density

0.651 – 0.751 @ 15°C

Density

650 - 750kg/m³

Solubility(ies)

Slightly soluble in: Water.

Partition coefficient: n-octanol/water

Not available.

Auto-ignition temperature

>200°C (392°F)

Decomposition Temperature

Not available.

Kinematic Viscosity

Not available.

Viscosity

0.5 – 1.2cSt (0.5 – 1.2mm²/s) @ 20°C

Explosive properties

Not explosive.

Oxidising properties

Not oxidising.

JAC 2 - BULK

9.2 Other information	
Pour point	<-20°C (-4°F)
Molecular weight	119
Hygroscopic	No.
Coefficient of thermal expansion	0.00118v/v/°C

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	Keep away from heat and sources of ignition.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1.1 Substances	
Acute toxicity	
Ingestion	Low acute toxicity. LD50(rat) = 7100 - 7800mg/kg (OECD 401)
Inhalation	Low acute toxicity. LC50(rat) 4hour(s) > 21mg/l (OECD 403)
Skin Contact	Low acute toxicity. LD50 (rabbit) >2000mg/kg (OECD 402)
Eye Contact	Low acute toxicity.
Skin corrosion/irritation	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	May cause drowsiness or dizziness. No data.
STOT - repeated exposure	None anticipated.
Aspiration hazard	May be fatal if swallowed and enters airways. No data. 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	Toxic to aquatic life with long lasting effects. No data.
12.2 Persistence and degradability	Biodegradable. Unlikely to persist. Inherent Biodegradation: 51% (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 Results of PBT and VPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	None.

JAC 2 - BULK

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 No.	3295
14.2 UN proper shipping name	UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C7-C9 isoalkanes)
14.3 Transport hazard class(es)	ADR/RID	
	ADR/RID Class	3
	ADR Classification Code	F1
	Special Provisions	640D
	Limited Quantities	1 L
	Excepted Quantities	E2
	Emergency Action Code	3Y
	Mixed Packing Instructions for Packages	P001 IBC02 R001
	Mixed Packing Instructions for Packages	MP19
	Packing Instructions for Portable Tanks	T7
	Special Provisions for Portable Tanks	TP1 TP8 TP28
	Tank Code for Tanks	LGBF
	Vehicle for Tank Carriage	FL
	ADR Transport Category	2
	Tunnel Restriction Code	D/E
	Special Provisions for Carriage - Operation	S2 S20
	ADR HIN	33
	IMDG	
	IMDG Class	3
	Special Provisions	640D
	Limited Quantities	1 L
	Excepted Quantities	E2
	Mixed Packing Instructions for Packages	P001 IBC02 R001
	Packing Instructions for Portable Tanks	T7
	Special Provisions for Portable Tanks	TP1 TP8 TP28
	IMDG EMS	F-E, S-D
	Stowage and Handling	Category B
	Labels	
	Labels	3
		 
14.4 Packing group	Packing group	II

JAC 2 - BULK

14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

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

No information available

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 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 Not listed

Community Rolling Action Plan (CoRAP) Not listed

Regulation (EC) N° 850/2004 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

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: 3, 4, 7, 8, 11, 12, 14, 15

LEGEND

Hazard Pictogram(s)



GHS02



GHS08



GHS07



GHS09

Hazard classification

Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
 Asp. Tox. 1 : Aspiration hazard, Category 1
 Flam. Liq. 2 : Flammable liquid, Category 2
 STOT SE 3_H336 : Specific target organ toxicity — single exposure, Category 3
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2

Hazard 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.

JAC 2 - BULK

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P261: Avoid breathing vapours.
 P264: Wash hands and exposed skin thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P302+P352: IF ON SKIN: Wash with plenty of water.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P312: Call a POISON CENTER/doctor if you feel unwell.
 P331: Do NOT induce vomiting.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P370+P378: In case of fire: Use CO₂, dry chemical, or foam.
 P391: Collect spillage.
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.
 P501: Dispose of contents in accordance with local, state or national legislation.

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
 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
 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

JAC 2 - BULK

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.