



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 3 - BULK.
	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)	Quick drying cleaner and de-greaser. Suitable 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).
	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.
	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. 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. Eye Irrit. 2; Causes serious eye irritation. STOT SE 3; May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.
2.2 Label elements	Product Name	According to Regulation (EC) No. 1272/2008 (CLP) JAC 3 - BULK.
	Hazard Pictogram	 
	Signal word(s)	Danger.
	Hazard statement(s)	H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. EUH066: Repeated exposure may cause skin dryness or cracking.

JAC 3 - BULK

Precautionary statement(s)

P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P403+P235: Store in a well-ventilated place. Keep cool.

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

Not applicable.

3.2 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Acetone	60-100	67-64-1	200-662-2	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336, EUH066
Butanone	1-5	78-93-3	201-159-0	None assigned	GHS02, Flam. Liq. 2; H225, GHS07, Eye Irrit. 2; H319, STOT SE 3; H336, EUH066

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 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. If symptoms persist, obtain medical attention.

Eye Contact

IF IN EYES: 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

Wash out mouth with water. Do not give anything by mouth to

JAC 3 - BULK

an unconscious person. If symptoms persist, obtain medical attention.

- | | |
|---|--|
| 4.2 Most important symptoms and effects, both acute and delayed | Inhalation: Sore throat, Cough, Confusion, Headache, Dizziness, Drowsiness, Unconsciousness.
Skin Contact: Repeated exposure may cause skin dryness or cracking.
Eye Contact: Redness, Pain. |
| 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: Extinguish preferably with dry chemical, sand, foam or carbon dioxide.
Water. |
| 5.2 Special hazards arising from the substance or mixture | Decomposes in a fire giving off toxic fumes: Carbon dioxide, Nitrogen oxides.
Vapours or fumes: can form explosive mixture with air. |
| 5.3 Advice for fire-fighters | 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 all ignition sources if safe to do so. Avoid breathing vapours. Avoid contact with eyes. Wear protective gloves/eye protection. Wash hands thoroughly after handling. |
| 6.2 Environmental precautions | Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. |
| 6.3 Methods and material for containment and cleaning up | Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. |
| 6.4 Reference to other sections | See Also Section 8 and 13. |

7. SECTION 7: HANDLING AND STORAGE

- | | |
|---|---|
| 7.1 Precautions for safe handling | The vapour is heavier than air and spreads along ground. 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 contact with eyes. Avoid prolonged skin contact. Wear protective gloves/eye protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. |
| 7.2 Conditions for safe storage, including any incompatibilities | Keep only in original container. Keep container tightly closed. Store locked up. Store in a well-ventilated place. Keep cool. |

JAC 3 - BULK

Storage Temperature	<25°C
Special storage conditions	The storage of this product is subject to the requirements of the Highly Flammable and Liquid Petroleum Gases Regulations.
Storage Life	Stable under normal conditions.
Incompatible materials	Oxidizing agents, Strongly acidic, Strongly alkaline.
7.3 Specific end use(s)	Quick drying cleaner and de-greaser. Suitable 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).

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
Acetone	67-64-1	500	1210	1500	3620	WEL
Butanone	78-93-3	200	600	300	899	WEL, Sk

WEL: Workplace Exposure Limit (UK HSE EH40)

Sk: Can be absorbed through skin.

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, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2 Personal protection equipment

Eye/face protection



Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely.

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

Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance
Colour

Liquid.
Colourless.

JAC 3 - BULK

Odour	Characteristic.
Odour Threshold	Not available.
pH	Not available.
Melting Point/Freezing Point	-95.4 °C (Acetone)
Initial boiling point and boiling range	56.2 °C
Flash point	<-18 °C
Evaporation rate	Not available.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	233 hPa @ 20 °C (Acetone)
Vapour density	Not available.
Relative density	0.78 – 0.81
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	465 °C @ 1013 hPa (Acetone)
Decomposition Temperature	Not available.
Kinematic Viscosity	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2 Other information	
Volatile organic compound (VOC)	792 g/l

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	The vapour is heavier than air and spreads along ground. Vapours or fumes: can form explosive mixture with air.
10.4 Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5 Incompatible materials	Oxidizing agents, Strongly acidic, Strongly alkaline.
10.6 Hazardous Decomposition Product(s)	Carbon dioxide, Nitrogen oxides.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
11.1.1 Mixtures	
Acute toxicity	
Ingestion	Low acute toxicity. Acetone: LD50 (rat) = 5800 - 7138 mg/kg
Inhalation	STOT SE 3; May cause drowsiness or dizziness. Acetone: LC50 (rat) 4hour(s) = 31994 ppm
Skin Contact	Low acute toxicity. Acetone: LD50 (rabbit) > 15688 mg/kg
Eye Contact	Low acute toxicity.
Irritation	Eye Irrit. 2; Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking.
Corrosivity	Not classified.
Sensitisation	Not expected to be a skin or respiratory sensitiser.
Repeated dose toxicity	None anticipated.
Carcinogenicity	No evidence of carcinogenicity.
Mutagenicity	There is no evidence of mutagenic potential.
Toxicity for reproduction	None anticipated.
Aspiration hazard	None anticipated.
11.2 Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	Readily biodegradable. Unlikely to persist.
12.3	Bioaccumulative potential	The product has no potential for bioaccumulation.
12.4	Mobility in soil	Soluble in water. The product is predicted to have high mobility in soil. The product is volatile and will partition into the atmosphere. The vapour is heavier than air and spreads along ground.
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	Dispose of contents/container to: Licensed recycler. 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. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.

14. SECTION 14: TRANSPORT INFORMATION

14.1	UN number	UN 1263
14.2	Proper Shipping Name	PAINT RELATED MATERIAL
14.3	Transport hazard class(es)	3
14.4	Packing Group	III
14.5	Environmental hazards	Not classified as a Marine Pollutant.
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
	Tunnel Restriction Code	D/E

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.
	Community Rolling Action Plan (CoRAP)	All chemicals are not listed.

JAC 3 - BULK

15.1.2 National regulations
15.2 Chemical Safety Assessment

None known.
Not applicable.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 14

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
Flam. Liq. 2	Flammable liquid Category 2
Eye Irrit. 2	Serious eye damage/irritation Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3

Hazard statement(s) and Precautionary statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
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.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Extinguish preferably with dry chemical, sand, foam or carbon dioxide.
P405	Store locked up.
P501	Dispose of contents/container to: Licensed recycler.

Hazard pictogram(s)

GHS02



GHS07



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)

Not applicable.