



**SAFETY DATA SHEET
JANGRO BLEACH**

According to Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name JANGRO BLEACH
Product No. BC014-5
Container size 2 x 5 litres

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

Identified uses Disinfecting and cleaning.

1.3. Details of the supplier of the safety data sheet

Supplier JANGRO LTD
JANGRO HOUSE
WORSLEY ROAD
FARNWORTH
BOLTON
BL4 9LU
0845 458 5223
01204 576801
Contact Person Competent person responsible for content of safety data sheet: sds@coventrychemicals.com

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) R31.

2.2. Label elements

Risk Phrases R31 Contact with acids liberates toxic gas.
Safety Phrases S2 Keep out of the reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
P13 Safety data sheet available for professional user on request.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

JANGRO BLEACH

SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE		2.5-5%
CAS-No.: 7681-52-9	EC No.: 231-668-3	Registration Number: 01-2119488154-34-XXXX
Classification (EC 1272/2008) EUH031 Skin Corr. 1B - H314 Aquatic Acute 1 - H400	Classification (67/548/EEC) C;R34 R31 N;R50	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

Skin contact

Rinse immediately with plenty of water. Remove contaminated clothing. Contact physician if irritation continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Vapour containing chlorine may irritate the nose, throat and lungs.

Ingestion

May irritate the mouth, throat and stomach. May cause stomach pain or vomiting.

Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye contact

May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire or high temperatures create: Chlorine. Oxides of: Chlorine. Hydrogen chloride (HCl).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8.

6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground.

JANGRO BLEACH

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Flush away small spillages with plenty of water. Large quantities should not be discharged into the drain but removed with absorbing material. Absorb in vermiculite, dry sand or earth and place into containers. Do not use paper or sawdust. Ventilate well. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Provide good ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Avoid contact with acids and other cleaning agents.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Protect from light, including direct sunrays. Store away from: Acids.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s). In case of Chlorine emission, the WEL for Chlorine should be observed: Short Term Exposure Limit (STEL) 1 ppm / 2.9 mg/m³. Long Term Exposure Limit (LTTEL) 0.5 ppm / 1.5 mg/m³. WEL = Workplace Exposure Limits

SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE (CAS: 7681-52-9)

DNEL				
Industry	Inhalation.	Long Term	Local Effects	1.55 mg/m ³
Industry	Inhalation.	Long Term	Systemic Effects	1.55 mg/m ³
Industry	Inhalation.	Short Term	Local Effects	3.1 mg/m ³
Industry	Inhalation.	Short Term	Systemic Effects	3.1 mg/m ³
Consumer	Inhalation.	Long Term	Local Effects	1.55 mg/m ³
Consumer	Inhalation.	Long Term	Systemic Effects	1.55 mg/m ³
Consumer	Inhalation.	Short Term	Local Effects	3.1 mg/m ³
Consumer	Inhalation.	Short Term	Systemic Effects	3.1 mg/m ³
Consumer	Oral	Long Term	Systemic Effects	0.26 mg/kg/day
PNEC				
Freshwater	0.00021	mg/l		
Marinewater	0.000042	mg/l		
Intermittent release	0.00026	mg/l		
STP	0.03	mg/l		

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation.

Respiratory equipment

Respiratory protection not required.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. PVC or rubber gloves are recommended. EN 374

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable. EN 166

Other Protection

Use barrier creams to prevent skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact.

JANGRO BLEACH

Hygiene measures

When using do not eat, drink or smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Use appropriate skin cream to prevent drying of skin.

Environmental Exposure Controls

Avoid release to the environment. Users should be aware of environmental considerations and their duties under the environmental protection act. Further information may be found on Government websites: www.dti.gov.uk/access/index/htm and www.envirowise.gov.uk.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless to pale yellow.
Odour	Chlorine.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	
Not applicable.	
Melting point (°C)	
Not applicable.	
Relative density	1.05 @ 20°C
Bulk Density	
Not applicable.	
Vapour density (air=1)	
Not determined.	
Vapour pressure	
Not determined.	
Evaporation rate	
Not determined.	
Evaporation Factor	
Not applicable.	
pH-Value, Conc. Solution	11.5
Viscosity	
Not determined.	
Solubility Value (G/100G H ₂ O@20°C)	
Not applicable.	
Decomposition temperature (°C)	
Not applicable.	
Odour Threshold, Lower	
Not applicable.	
Odour Threshold, Upper	
Not applicable.	
Flash point (°C)	
Not applicable.	
Auto Ignition Temperature (°C)	
Not applicable.	
Explosive properties	
Not applicable	
Oxidising properties	
Not applicable.	
Comments	Information given concerns the concentrated solution.

9.2. Other information

Not relevant

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts with many inorganic and organic compounds

10.2. Chemical stability

Decomposes over time. Factors that increase the rate of decomposition: increase in temperature, certain metallic impurities, high initial concentration, fall in pH below 11 and exposure to light.

JANGRO BLEACH

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic chlorine gas.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Acids. Ammonium compounds. Organic materials. Metals, particularly copper, nickel and iron.

10.6. Hazardous decomposition products

Chlorine. Hydrogen chloride (HCl). Chlorine oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Data for sodium hypochlorite solution 15% shows low acute oral toxicity: LC50(rat, oral) 1100 mg/kg (as available chlorine). Low acute inhalation toxicity. LC50 (rat, 1hr) >10500mg/m³ (as available chlorine). Very low acute dermal toxicity. LC50 (rat, dermal) >2000 mg/kg (as available chlorine).

Other Health Effects

This substance has no evidence of carcinogenic properties.

Respiratory or skin sensitisation:

Not Sensitising.

General information

This product has low toxicity. Only large volumes may have adverse impact on human health.

Ingestion

May irritate and cause stomach pain, vomiting and diarrhoea.

Skin contact

Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

Eye contact

May cause temporary eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment. The product is classified using the test data for the AISE model bleach product. Ref: International Association for Soaps, Detergents and Maintenance Products publication "Environmental classification of sodium hypochlorite containing bleach products". The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.1. Toxicity

Acute Fish Toxicity

Not considered toxic to fish.

EC 50, 48 Hrs, Daphnia, mg/l >1 mg/l

Reference: AISE report "Environmental classification of sodium hypochlorite containing bleach products.", 9 September 2009.

12.2. Persistence and degradability

Degradability

The product solely consists of inorganic compounds which are not biodegradable. Reacts with organic substances in soil and sediments and degrades rapidly to chloride salts. Substantially removed in biological treatment processes.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation. Low potential for bioaccumulation.

12.4. Mobility in soil

JANGRO BLEACH

12.4. Mobility in soil

Mobility:

The product is water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

There is evidence that sodium hypochlorite inhibits the aerobic treatment process at a concentration of 0.05 mg/l.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not discharge into drains, water courses or onto the ground.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Packaging is recyclable. Wash out containers with water before disposal.

SECTION 14: TRANSPORT INFORMATION

Road Transport Notes	Not Classified
Rail Transport Notes	Not classified.
Sea Transport Notes	Not classified.
Air Transport Notes	Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108). COSHH Essentials.

JANGRO BLEACH

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006,

15.2. Chemical Safety Assessment

A Chemical Safety Assessment (CSA) has been completed for Sodium hypochlorite. Currently we do not have information from our suppliers about this.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

DNEL Derived No Effect Level PNEC Predicted No Effect Concentration STP Sewage Treatment Plant vPvB very Persistent, very Bio-accumulative

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 07/11/2013

Revision 3

Supersedes date 05/09/2013

Risk Phrases In Full

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

R50 Very toxic to aquatic organisms.

Hazard Statements In Full

H314 Contact with acids liberates toxic gas.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.