

Buckleberry Limited

screen print supply company

... the complete solution for screen printers

SAFETY DATA SHEET**B – STRIP LIQUID**

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name** B-Strip Liquid**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** As a stencil remover in printing processes.**Uses advised against** No specific uses advised against are identified.**1.3. Details of the supplier of the safety data sheet****Supplier** Buckleberry Ltd
Buckleberry House
9, Hales Road
Lower Wortley
Leeds
LS12 4PL
0161-442 6556
sales@inkandsolvents.co.uk**1.4. Emergency telephone number****Emergency telephone** Screen Ink & Solvent Supplies Ltd 0161-442 6555 (09:00-17:00)**National emergency
telephone number** 999 / 112**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

Health hazards

Skin Corr. 1C - H314 Eye Dam. 1 - H318 STOT RE 1 - H372

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

T; R48/23/24/25. C; R34

Human health

Corrosive to skin and eyes. May cause damage to organs Thyroid, Glands through prolonged or repeated exposure.

2.2. Label elements**Pictogram****Signal word**

Danger

B – STRIP LIQUID**Hazard statements**

H314 Causes severe skin burns and eye damage.
 H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe vapour/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): 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.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

orthoperiodic acid, sodium periodate

Supplementary precautionary statements

P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P314 Get medical advice/attention if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

orthoperiodic acid 10-20% CAS number: 10450-60-9 EC number: 233-937-0 M factor (Acute) = 1	
Classification Ox. Liq. 2 - H272 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 1 - H372 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) O; R8. T; R48/25. C; R34. N; R50
sodium periodate 5-10% CAS number: 7790-28-5 EC number: 232-197-6 REACH registration number: 01-2119980983-20-XXXX M factor (Acute) = 1	
Classification Ox. Sol. 1 - H271 Skin Corr. 1C - H314 Eye Dam. 1 - H318 STOT RE 1 - H372 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) O; R8. T; R48/25. C; R34. N; R50

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

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

Chemical burns must be treated by a physician.

Inhalation

Move affected person to fresh air at once. Keep affected person warm and at rest. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if symptoms are severe or persist.

Ingestion

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.

Skin contact

Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Wash with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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

Inhalation

May cause respiratory system irritation.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach. May cause damage to organs Thyroid, Glands through prolonged or repeated exposure.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

Causes severe skin burns and eye damage.

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

Notes for the doctor

No specific recommendations. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards

No unusual fire or explosion hazards noted.

Hazardous combustion products

Very toxic or corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

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Evacuate area. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections

For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Product is oxidizing when dry. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. WARNING: When subject to intense compression at temperatures above 140oC Sodium Metaperiodate can undergo violent decomposition to form Sodium Iodate with the release of gaseous oxygen. This is significantly lower than the normal decomposition temperature of 270oC. Where there is a potential for extreme compression during processing e.g. during milling, tableting or agitated pan-drying operations the maximum processing temperature should be kept well below 140oC to minimize the risk of decomposition.

Advice on general occupational hygiene

Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class

Corrosive storage.

7.3. Specific end use(s)

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

Occupational exposure limits

Ingredient comments

No exposure limits known for ingredient(s).

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sodium periodate (CAS: 7790-28-5)

DNEL

Workers - Inhalation; Long term systemic effects: 0.1 mg/m³
Workers - Dermal; Long term systemic effects: 0.06 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.03 mg/m³
General population - Dermal; Long term systemic effects: 0.03 mg/kg/day
General population - Oral; Long term systemic effects: 0.01 mg/kg/day

PNEC

- Fresh water; 0.00018 mg/l
- Marine water; 0.000018 mg/l
- Intermittent release; 0.0018 mg/l
- STP; 2.2 mg/l
- Sediment (Freshwater); 0.0000702 mg/kg
- Soil; 0.000035 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Wear protective gloves made of the following material: Butyl rubber. Viton rubber (fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Ensure an eye bath is located nearby. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.

Respiratory protection

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

Colour

Colourless to pale yellow.

Odour

Slight.

Odour threshold

No information available.

pH

pH (concentrated solution): 1.5

Melting point

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Not applicable.

Initial boiling point and range

>100°C @ 760 mm Hg

Flash point

Not applicable.

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

No information available.

Vapour density

>1

Relative density

~ 1.2 @ 20°C

Bulk density

Not applicable.

Solubility(ies)

Miscible with water.

Partition coefficient

No information available.

Auto-ignition temperature

No information available.

Decomposition Temperature

No information available.

Viscosity

Not available.

Explosive properties

Not applicable.

Oxidising properties

Does not meet the criteria for classification as oxidising.

Comments

Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

9.2. Other information

Volatile organic compound

This product contains a maximum VOC content of 0 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

May generate toxic gas in contact with acids.

10.2. Chemical stability

Stability

PSS STENCIL STRIPPER CONCENTRATE

Stable at normal ambient temperatures and when used as recommended. **WARNING:** When subject to intense compression at temperatures above 140°C Sodium Metaperiodate can undergo violent decomposition to form Sodium Iodate with the release of gaseous oxygen. This is significantly lower than the normal decomposition temperature of 270°C. Where there is a potential for extreme compression during processing e.g. during milling, tableting or agitated pan-drying operations the maximum processing temperature should be kept well below 140°C to minimize the risk of decomposition.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

Strong acids. Flammable/combustible materials. Strong reducing agents. Powdered metal.

10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Sulphurous gases (SO_x). Iodine Compounds

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀)

Based on available data the classification criteria are not met.

Acute toxicity - Inhalation

Notes (Inhalation LC₅₀)

Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data

Corrosive to skin.

Serious eye damage/irritation

Corrosivity to eyes is assumed.

Respiratory sensitisation

Based on available data the classification criteria are not met.

Skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro

Does not contain any substances known to be mutagenic.

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility

Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure

No specific test data are available. May cause damage to organs Thyroid, Glands through prolonged or repeated exposure.

Aspiration hazard

Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach. Nausea, vomiting.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

Causes serious eye damage. May cause chemical eye burns.

Acute and chronic health hazards

Swallowing concentrated chemical may cause severe internal injury. May cause damage to organs Thyroid, Glands through prolonged or repeated exposure.

Route of entry

Inhalation Ingestion. Skin and/or eye contact

Target organs

Gastro-intestinal tract Respiratory system, lungs Skin Eyes Thyroid Glands

Medical symptoms

Chemical burns. Irritation of nose, throat and airway.

SECTION 12: Ecological Information

Ecotoxicity

Not known. The product contains a substance which is very toxic to aquatic organisms. However, this preparation has not been classified as hazardous to the environment using the conventional method calculation. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Acute toxicity - fish

Not known.

Acute toxicity - aquatic invertebrates

Not known.

Acute toxicity - aquatic plants

Not known.

12.2. Persistence and degradability

Persistence and degradability

The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

No information available.

12.4. Mobility in soil

Mobility

The product is miscible with water and may spread in water systems.

12.5. Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

B – STRIP LIQUID**12.6. Other adverse effects**

Not known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	3264
UN No. (IMDG)	3264
UN No. (ICAO)	3264
UN No. (ADN)	3264

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PERIODIC ACID)
Proper shipping name (IMDG)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PERIODIC ACID)
Proper shipping name (ICAO)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PERIODIC ACID)
Proper shipping name (ADN)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS PERIODIC ACID)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C1
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	3

B – STRIP LIQUID**Emergency Action Code** 2X**Hazard Identification Number** 80
(ADR/RID)**Tunnel restriction code** (E)**Limited Quantity Value** 5 Litre
(Road):**Limited Quantity Value (Sea):** 5 Litre**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not Known

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****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) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**Key literature references and sources for data**

Material Safety Data Sheet, Misc. manufacturers.

Classification procedures according to Regulation (EC) 1272/2008

: Calculation method., On basis of test data., Bridging principle (Substantially similar mixtures).

Revision comments

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

Issued by J Waterfield**Revision date** 12/11/2014**Revision** 3.0**Supersedes date** 20/08/2009**SDS number** 21017**Risk phrases in full**

R8 Contact with combustible material may cause fire.

R34 Causes burns.

R48/23/24/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

R50 Very toxic to aquatic organisms.

Hazard statements in full

H271 May cause fire or explosion; strong oxidiser.

H272 May intensify fire; oxidiser.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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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.