



Clemas & Co Ltd

Units A3 & A4, Northway Trading Estate, Northway Lane, Tewkesbury, Glos. GL20 8JH

Tel: 01684 850777

Fax: 01684 850707

E-mail: info@clemas.co.uk

www.clemas.co.uk

Bio Formulation

PRODUCT CODE: DCL00410

Product Description

Biological de-greaser for smooth and porous surfaces. The microbes in this product are activated when mixed with water, breaking down oil deposits, dissolving the stain turning into water and carbon dioxide. Some of this product will remain active until all the oil has been consumed. Graffiti remover Gel is designed to be used undiluted.

Directions

Heavy stains	1 litre of Bio Formulation dissolved into 2 litres of water
Light stains	1 litre of Bio Formulation dissolved into 4 litres of water
Pressure washing	1 litre of Bio Formulation dissolved into 1 litres of water

Porous Surfaces

Remove surface oils, rinse and spray on the Bio Formulation solution. Allow it to work for 20 to 30 minutes. Keep damp by applying more solution as necessary and agitate with a brush. After 30 minutes lightly rinse with clean water.

Any imbedded stain will slowly disappear over some days.

Soil

Scrape surface, dampen and apply Bio Formulation solution. Scrape the surface again and lightly spray with water

Non-porous surfaces

Wash, spray or brush on a 1:4 solution of Bio Formulation. Leave it to allow the micro-organisms to work. Do not use in direct sunlight on painted surfaces.

Pressure Washing

Pre-wash, spray surface with 1:1 dilution of Bio Formulation. Pressure rinse from top to bottom up. Keep surfaces wet for as long as possible.

Health and Safety

Product risk and safety phrases

S36/37/38/39 Wear suitable protective clothing, gloves and eye/face protection

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S2 Keep out of reach of children.

PRODUCT SAFETY DATA SHEET

IDENTIFICATION

Product Name: Bio Formulation
Product Code: DL00410
Supplier: Clemas & Company Limited
Units A3 & A4, Northway Trading Estate
Tewkesbury, Glos GL20 8JH
Tel: 01684 850777
Fax: 01684 850707

COMPOSITION/INFORMATION INGREDIENTS

Gamma Butyrolactone	10-30%
N-methyl-2-pyrrolidone	10-30%
3-butoxypropan-2-ol	5-10%
Monoisopropanolamine salt	1-5%
Of dodecyl benzene sulphonic acid	

HAZARDS IDENTIFICATION

CHIP Classification: This product is not classified as hazardous under CHIP regulations.

EYE HAZARD: Will cause discomfort.

SKIN HAZARD: Prolonged or repeated contact may cause irritation/dryness.

RESPIRATORY HAZARD: Not a hazard in normal use.

Breathing spray mist may cause irritation.

FLAMMABILITY HAZARD: Not combustible

OTHER HAZARDS: Contact with hypochlorite (bleach) liberates toxic chlorine gas.

FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with water for at least 10 minutes. Retract eyelids often. Seek medical assistance if irritation persists.

SKIN CONTACT: Wash skin with mild soap and water and seek medical attention if irritation persists.

INHALATION: If irritation occurs remove to fresh air, keep warm and at rest. Seek medical attention immediately.

INGESTION: Do not induce vomiting. If conscious give water to drink and seek medical assistance immediately.

FIRE FIGHTING MEASURES: Not applicable.
May produce acidic fumes in fire.

ACCIDENTAL RELEASE: Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposable containers. Flush with plenty of water.

HANDLING & STORAGE: Store in a cool, dry place, with plenty of ventilation. Wear suitable protection, wash hands and other exposed areas before eating, drinking smoking.

EXPOSURE CONTROLS/PERSONAL PROTECTION

These measures are suggested on the basis of general use methods and may not be appropriate to all potential users of the product. The user responsible for carrying out a full risk assessment of their specific processes and systems of work.

EYE PROTECTION: Wear eye protection to BS EN 166 1F if splashing is likely.

HAND PROTECTION: Wear pvc or latex gloves. Exact choice of glove depends on specific risk assessments.

BODY PROTECTION: As necessary to prevent contact.

RESPIRATORY PROTECTION: Local exhaust and general ventilation must be adequate to meet exposure standards.

OTHER PROTECTION: N/A

OCCUPATIONAL EXPOSURE LIMITS

Hydrogen Chloride:

N-methyl-2-pyrrolidone : TLV-TWA (mg/m³) :100

N-methyl-2-pyrrolidone : TLV-TWA (ppm) :400

STABILITY & REACTIVITY

Hazardous Reactions: None under normal conditions

Conditions avoid: Overheating

Hazardous decomposition products: When heated to decomposition, emits dangerous fumes.

TOXICOLOGICAL INFORMATION

Eye Contact: Will cause irritation.

Skin Contact: Prolonged or repeated contact may cause irritation/dryness.

Inhalation: May cause irritation to the respiratory tract and to other mucous membranes.

Ingestion: May cause irritation of the linings of the mouth, throat and gastro-intestinal tract.

ECOLOGICAL INFORMATION

No specific risk for the environment

DISPOSAL CONSIDERATIONS

Dispose in a safe manner in accordance with local/national regulations.

TRANSPORT INFORMATION

Transport Classification: Not classified.

UN number not classified

REGULATORY INFORMATION

Irritant

This product should be stored, handled and use in accordance with good industrial practice and in conformity with legal regulations. The information this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements are thus should not be constructed as guaranteeing specific properties. It is for the users to satisfy themselves of the suitability of this product for their own applications.

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