PUREDEG

BIODEGRADABLE DEGREASING FLUID

PRODUCT DATA SHEET & MSDS



DESCRIPTION

PUREDEG is a multi-purpose water-based degreasing fluid suitable for a wide range of cleaning applications**.** It is environmentally friendly, biodegradable and non-flammable. PUREDEG is a cost-effective solution for stubborn greasy dirt and soil that have accumulated over extended periods of time. Free from Phosphates and Butyl Oxitol.

FEATURES

- Solvent free non–flammable formulation.
- Safe for use on all metal surfaces.
- Biodegradable and environmentally friendly.
- Emulsifies readily and free rinsing.
- Safe and easy to use.

APPLICATION

PUREDEG is formulated for a wide range of industrial and household cleaning applications. It is particularly suitable for cleaning machinery, tools and equipment. Recommended for cleaning service station, workshop**,** factory**,** restaurant and domestic floors. Most effective when applied neat by spray**,** brush or broom. Allow to soak into the grease, grime or dirt, agitated and wash off with water. PUREDEG can be diluted with water at a rate of up to 10:1 for maintenance purposes.

TYPICAL PROPERTIES

PROPERTY	TYPICAL
Appearance	Bright and Clear Liquid
Colour	Colourless to Pale Straw
Density; g/cm³	1.026
pH Value	11.8
Boiling Point, ºC	>100
Freezing Point; ºC	-4
Flash Point; ºC	Non-Flammable

The figures above do not represent a specification.
They are typical values obtained within normal production tolerances.

All reasonable care has been taken to ensure that the information contained in this Product Data Sheet is accurate at the date of issue. It should be noted, however, that the information may be affected by changes, subsequent to the date of issue, in the blend formulation or the requirements of any third-party specification relating to this product or the methods of application. Final determination of suitability of any material is the sole responsibility of the user.

Revision Date: 8 July 2021 (Revision No 4)

licensed manufacturer

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1. PRODUCT IDENTIFICATION

Product Name	:	**PUREDEG**.
Product Use	:	Biodegradable water-based degreasing fluid.
Manufacturer	:	Blue Chip Lubricants (Pty) (Ltd), P O Box 940, Northriding, 2162.
Telephone	:	+27 11 462 1829
Email	:	info@bcl.co.za

2. COMPOSITION

Chemical Composition	:	C9-C11 Alcohol Ethoxylate: 3 – 5% Quaternary C12-C14 alkyl methyl amine ethoxylate methyl chloride: 1 – 3% Glutamic acid, N,N-diacetic acid, tetrasodium salt: 1 – 3% Water: Balance of formulation.
Hazardous Components	:	No component is present at sufficient concentration to require hazardous classification.

3. HAZARDS IDENTIFICATION

Hazards	:	This product is not considered hazardous to the environment.

4. FIRST AID MEASURES

Eye Contact	:	Flush eyes thoroughly with water. Obtain medical advice if any irritation occurs.
Skin Contact	:	Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin thoroughly. If irritation persists obtain medical attention.
Ingestion	:	If large quantities of this product are ingested obtain medical advice. DO NOT induce vomiting unless directed so by medical personnel. Never give anything by mouth to an unconscious person. If this product comes into contact with mouth, rinse out thoroughly with water.
Inhalation	:	Avoid excessive inhalation of mists, fumes or vapour. This causes irritation to the nose, throat, and coughing. Remove person from exposure. If symptoms persist obtain medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media	:	In case of fire use water sprays, fog or standard foam is recommended. DO NOT USE water jets. Water may be used to cool nearby heat exposed areas /objects. Avoid spraying directly into storage containers because of the danger of boil-over. Move container away from fire area if you can do it without risk.
Special hazards	:	Fires in confined areas should be dealt with by trained personnel wearing approved breathing apparatus. Toxic fumes may be evolved on burning or exposure to heat.
Protective clothing	:	Use suitable protective breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Any spillages should be regarded as a potential risk. In the event of spillage, remove all sources of ignition and ensure good ventilation. Spilled material may make surface slippery. Clean up spilled material immediately. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
Environmental precautions	:	Do not wash product into drainage systems, protect drains from potential spills to minimize contamination. In the case of spillage on water, prevent the spread of product using suitable barrier equipment. Recover from the surface. Protect environmentally sensitive areas and water supplies. Minimize contact of spilled material with soils to prevent runoff to surface waterways.



Small Spills	:	For small spills clean up the material immediately. Contain and recover spilled material using sand or other suitable inert absorbent material.
Large Spills	:	Recovery of large spills should be affected by specialist personnel.

7. HANDLING AND STORAGE

Handling precautions	:	Do not spray into electrical connections or outlets. Avoid contact with skin and observe good personal hygiene. Avoid contact with eyes. If splashing is likely to occur wear a full-face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths in pockets. Take necessary precautions against accidental spillage into soil and water. Good working practices, high standards of personal hygiene and plant cleanliness must always be maintained .
Storage precautions	:	Store under cover away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:		There is no appropriate occupational exposure limit to this material.
Engineering controls	:	The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. If vapour, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.
Personal Protective Equipment		
Respiratory system	:	Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes are adequately controlled. The use of respiratory equipment must be strictly in accordance with any statutory requirements governing its selection and use.
Hands	:	Use chemical resistant, impervious gloves.
Eyes	:	Safety glasses with side shields. Goggles with a face shield may be necessary depending on conditions of use.
Skin	:	Disposable outer garments where there is the potential for contact with the material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Bright and clear liquid
Colour	:	Colourless to light yellow
Density	:	1.026 g/cm³
pH Value	:	11.8
Boiling Point	:	> 100 ºC
Freezing Point	:	- 4 ºC
Flash Point	:	Non-flammable
Flammability	:	Not applicable, aqueous solution
Explosive Properties	:	Not applicable
Oxidising Properties	:	Not applicable
Vapour Pressure	:	Same as water, aqueous solution
Solubility in Water	:	Completely miscible
Solubility in Solvents	:	Miscible with most organic solvents
Vapour Density	:	Similar to water
Autoignition Temperature	:	Not applicable
Explosive Limits	:	Not applicable



10. STABILITY AND REACTIVITY

Conditions to avoid	:	Sources of ignition. Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gasses, including carbon monoxide.
Incompatible Materials	:	Avoid contact with strong oxidizing agents
Stability	:	Stable at ambient temperatures. Hazardous polymerization reactions will not occur.

11. TOXICOLOGICAL INFORMATION

Skin contact	:	Unlikely to cause harm to the skin on brief or occasional contact.
Eye contact	:	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Ingestion	:	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Inhalation	:	At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May cause irritation to eyes, nose and throat due to vapour, mists or fumes. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occur.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	:	Emulsifies readily but high concentrations in water may cause physical damage to organisms; oxygen transfer could also be impaired.
Biodegradability	:	This product is inherently biodegradable.
Bioaccumulation	:	There is no evidence to suggest bioaccumulation will occur.
Mobility	:	Spillages may penetrate the soil causing ground and water contamination.

13. DISPOSAL CONSIDERATIONS

Disposal Methods	:	Where possible, arrange for the product to be recycled. Dispose via an authorized person / licensed waste disposal conductor in accordance with local regulations.

14. TRANSPORT INFORMATION

Road Transport	:	Not classified as hazardous for transport

15. REGULATORY INFORMATION

EC Classification	:	Not classified as dangerous under EC criteria.
EC Symbols	:	No Hazard Symbol required
EC Risk Phrases	:	Not classified.
EC Safety Phrases	:	Not classified.

DISCLAIMER

The information provided in this data sheet and the health, safety and environmental information it contains, is correct to the best of our knowledge at the date of publication. However, neither Blue Chip Lubricants (Pty) Ltd nor any of its affiliates, accept any liability whatsoever for the accuracy or completeness of the information contained herein. Since this information may be applied under conditions beyond our control, we do not accept any responsibility for the results of its use. Final determination of suitability of any material is the sole responsibility of the user.