



REGISTERED FIRM

Contact Information:
e-Mail: polichem@mweb.co.za
Telephone: (011) 918 2955
Facsimile: (011) 918 2956
REG NO. 2002/015336/07
VAT NO. 4220199527

BIO D RAW

Material Safety : Data Sheet

Section I - Chemical Product and Company Identification

Product Name/ Trade Name	BIO D RAW	Code BIOR0000
Supplier	S.A. Polichem, 22A, Anderbolt Industrial Area 78 Craig Road Boksburg	P.O. BOX 16145 ATLASVILLE 1465
HS Code	3402.19.90.00	
Chemical Name	WATER BASED DEGREASER	In case of Emergency: 083 508 0724 011 918 2955
Chemical Family	Alkali	
Chemical Formula	Formulated chemical	
Manufacturer	S.A. Polichem, 22A, Anderbolt Industrial Area 78 Craig Road Boksburg	Material Uses: Bio-degradable, Water-based degreasing liquid

Section II - Composition and Information on Ingredients

Substance Name	CAS #	Concentration %	Safety phrases	Risk phrases
Non-ionic surfacants (Coco alkylamine ethoxylate) (Alcohol ethoxylate)	61791-10-4	6 - 8 9 - 11	S26/39 S26/39	R-41,52/53 R-41
Complexing agent	Formula protection	>1	S26	R-20/22
Wetting agent	Formula protection	>1	S26	R-20/22

Section III - Hazards Identification

Potential Acute Health Effects	Will dry skin out, no inhalation danger. Eye contact (Irritant). Ingestion (low acute toxicity)
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: No known data. MUTAGENIC EFFECTS: No known data. TERATOGENIC EFFECTS: No known data. DEVELOPMENTAL TOXICITY: No known data.

Section IV - First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Finish by rinsing thoroughly with running water to avoid possible infection.
Skin Contact	Rinse with water, no medical attention needed.
Hazardous Skin Contact	No additional information.
Inhalation	Not likely to occur.
Hazardous Inhalation	No additional information.
Ingestion	Drink a few glasses of water or milk. Contact physician if larger quantities has been swallowed.
Hazardous Ingestion	No additional information.

Section V - Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	N/A
Flash Points	N/A
Flammable Limits	N/A
Products of Combustion	N/A
Fire Hazards in Presence of Various Substances	N/A
Explosion Hazards in Presence of Various Substances	Non-explosive.
Fire Fighting Media and Instructions	N/A
Special Remarks on Fire Hazards	Non-combustible.
Special Remarks on Explosion Hazards	Non - explosive.

Section VI - Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large Spill	Absorb with DRY earth, sand or other non-combustible material. Prevent entry into sewers, basements or confined areas; dike if needed.

Section VII - Handling and Storage

Handling	The usual precautions for handling chemicals should be observed.
Storage	No special storage requirements.

Section VIII - Exposure Controls/Personal Protection

Engineering Controls	Product does not contain relevant quantities of materials with exposure values that have to be monitored. Provide eyewash station.
Personal Protection	Face shield. Overalls. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Overalls. Boots. Gloves.
Exposure Limits	TWA: >2000 mg/m ³ (Calculated value for mixture) Product considered essentially non-toxic.

Section IX - Physical and Chemical Properties

Physical state and appearance	Clear Amber Liquid.	Odour	None
Molecular Weight	Not applicable.	Taste	No known data.
PH	11 -13	Colour	Clear amber liquid.
Boiling/ Condensation Point	Weighed average: 100 OC (212OF)		
Melting/Sublimation Point	N/A		
Critical Temperature	N/A		
Specific Gravity	1.06 (Water = 1)		
Vapour Pressure	N/A		
Vapour Density	N/A		
Volatility	Non volatile.		
Odour Threshold	N/A		
Evaporation rate	Not tested.		
Viscosity	N/A		
Water/Oli Dist. Coeff.	The product is much more soluble in water.		
Solubility	Total in water.		

Section X - Stability and Reactivity Data

Stability	Normally stable.
Instability Temperature	N/A
Conditions of Instability	N/A
Incompatibility with Various Substances	Mildly reactive with acids. Non-reactive with oxidizing agents, reducing agents, combustible materials, organic materials, metals, alkalis.
Corrosivity	Not considered to be corrosive for metals.
Hazardous decomposition products	No typical hazardous decomposition products known.
Special Remarks on Corrosivity	N/A

Section XI - Toxicological Information

Routes of Entry	Eye contact. Ingestion. Skin contact.
Toxicity to Animals	Low toxicity for humans or animals.
Chronic Effects on Humans	Product considered low-toxic.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), skin contact (may dry out skin)
Special Remarks on Toxicity to Animals	Low toxicity for humans or animals.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on Other Toxic Effects on	No additional remark.

Humans	
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Section XII - Ecological Information

Ecotoxicity	Not determined.
Bio degradability	The hydrophobe in the nonionic part has a Linearity of $\pm 80\%$ and is biodegradable.
Bio accumulation	No bioaccumulation is expected. The product is biodegradable and water soluble.
Toxicity of the Products of Biodegradation Degradation	Product not readily biodegradable (<60%). Unlikely to bioaccumulate. The product complies with the decree on surfactant biodegradability of the European Community. Readily biodegradable(>60%).Biodegradable in sea water (>70%) The product complies with the decree on surfactant biodegradability of the European community.

Section XIII - Disposal Considerations

Waste Information	Waste must be disposed of in accordance with Environmental Conservations Act 73 of 1989.
Waste Stream	Do not re-use containers. Puncture all plastic containers. Flatten all metal containers. Shred all bags.

Section XIV - Transport Information

ADR Classification	Not controlled under ADR of the EEC.
Marine Pollutant	No
IMDG Classification	000000
Subsidiary Risk	None
CEFIC Tremcard	****
HS Code	340290000
Special Provisions for Transport	Not classified as hazardous for transport. Not dangerous goods according to international transport regulations.

Section XV - Other Regulatory Information and Pictograms

International Regulations List	N/A		
Other Regulations	N/A		
Other Classifications	N/A		
	N/A		
Hazardous Material Information System (USA)	Health Hazard		N/A
	Fire Hazard	0	N/A
	Reactivity	0	N/A
	Personal Protection		N/A

Section XVI - Other Information.

References	
Other Special	This MSDS is drafted in accordance with S.A. Occupational and Safety

Considerations	Act 85/1993, however, the product when used as directed, contains less than 10% of the hazardous constituents declared. At use concentrations therefore, the product is considered completely non-hazardous.	
Validated by chemical engineer Irena Kaminski	Verified by IRENA KAMINSKI	
	Printed	
Information Contact	TOMEK LUBASINSKI 083 508 0724	
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