

BOOKLET





Providing acceptable environment solutions to Hydrocarbon waste in the Exploration Drilling Industry

Introduction

The Exploration industry is located in remote areas where waste and hazardous disposal facilities are non-existent.

DrillClean provides a complete range of environmentally products that protects the environment from contamination, remediates contaminated soil and elevates waste disposal. The innovative **Soil Clean** Soil Remediation Technology has evolved over a period of 15 years through collaboration amongst a team of chemical specialists, ecologist and Environmentalists. This unique technology has been extensively researched in laboratory and fields trials.

SoilClean Soil Remediation.

SoilClean has successfully treated sites contaminated with the following hazardous substances

Crude Oil, Diesel, Petrol, Jet Fuel, Motor oil, Grease, Hydraulic fluids, drilling Polymers
PCB,s Alcohols, Chlorinated Solvents, Dichloromethane, Carbon, Terachloroethylene,
Terachloride,1,1 Dichloroethene, Toxiphenes, Pentachlorophenol, Perchlorate, Explosive
wastes [nitrate compounds] Sulphuric contaminated soil.

SoilClean is easy and safe to use in any soil remediation situation. The microbes present aggressively seek out their food source [hydrocarbon] converting it to carbon dioxide, water and a biomass in a short time frame bring the contaminated soil back to its pre contaminated state.

The species of selected microbes and Enzymes in Soil Clean degrade hydrocarbon chains ranging from C1 –C100

SoilClean is non-hazardous, non-toxic, non-pathogenic, and safe to nature thus no special handling required.

Typical Applications

Oil Spills. Wash bay and Oil & Grease trap sludge,

Protector mats and Protector Booms.

The all natural fiber Protector Mats and Booms are position in strategic positions to absorb oil and polymers in the drilling sump and under the mechanical machinery to absorb leaks and spillage of hydrocarbons.

Once saturated the Protector Mats and Booms are removed and buried with the Soil Clean remediation technology which converts the encapsulated hydrocarbon into carbon dioxide, water and a Biomass in a short time frame.

Sump Clear

Once the drilling operation has ceased and the rig removed. **Sump Clear** is added to the sump to break the molecular structure of the hydrocarbons and polymers present, once its action is completed the sump is skimmed with the use of **H2O Oil Absorbent** to absorb the hydrocarbon and polymer residue. The waste water is pumped through the Protector Booms directly into the environment providing a clean COD enriched (Chemical Oxygen Demand) waste water.

The spent **H2O Oil absorbent** is then transferred and included in the Soil Clean remediation location

HC Hydro Carbon Absorbent

Is a natural readily biodegradable oil absorbent that quickly absorbs oil and is transferred to the Soil Clean remediation location for rehabilitation once spent.

Bio Wash

A user friendly solvent less water based degreaser that quickly cleans and degreases equipment and hard surfaces.

Rig Oil Spill Kit

The kit is housed in a Red wheelie bin which includes a Spade, Fork & Rake, 10kg **H2O Oil Absorbent** and **Soil Clean Soil Remediation Kit**. Refill kits are readily available.

For further information or assistance contact us:



114/116 Boeing Road, Bedford View Gauteng 1710

Tel 011 454 0908

Email Sales@drillclean.co.za

Web: www.drillclean.co.za



Prevention of
Hydro Carbon
contamination
on Site



Product Instruction of the prevention of Hydro Carbon contamination on Site

Protector Oil Mats

Place underneath the machine to absorb any or pending hydrocarbon leaks thus preventing soil contamination. Once spent the Mat can be buried by applying the SoilClean remediation protocol. The process will convert the hydrocarbons into a biomass carbon dioxide and water in a short time frame.

Protector Oil Boom

Prior to commence the drilling operation place and secure a Protector Oil Boom at the point of influent [point of entry] and one at the point of effluent [point of exit].

Once spent the Boom can be buried by applying the SoilClean remediation protocol the process will convert the hydrocarbons into a biomass carbon dioxide and water in a short time frame.

H2O Oil Absorbent

H2O Oil absorbent is a broadcast/scattered over the floating hydro carbon on water to quickly absorb it, once absorbed the spent H2O oil absorbent can be buried by applying the SoilClean remediation protocol, the process will convert the hydrocarbons into a biomass carbon dioxide and water in a short time frame.

Sweep Up

Sweep Up quickly absorbs hydrocarbon spillage on concrete and rough surfaces.

Scatter the Sweep Up over the spillage and work in with the aid of an industrial broom or rake. The spent Sweep Up can be buried by by applying the SoilClean remediation protocol, the process will convert the hydrocarbons into a biomass carbon dioxide and water in a short time frame.



DrillClean [Pty] Ltd

114 Boeing Road East , Bedford View , Gauteng , 2007 , P.O.Box , 6
Telephone : 0103125969

MATERIAL SAFETY DATA SHEETS

Protecto Oil Mat Version: 1 Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Protecto Oil Mat

1.2 UN Proper Shipping Name:	None allocated
1.3 Recommended Use:	Hydrocarbon absorbent to retrieve and contain leaks and spillages under mechanical equipment
1.4 Supplier:	DrillClean [Pty] Ltd
1.5 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.6 Telephone Number:	011 454 0908
1.7 Email:	sales@drillclean.co.za
1.8 Emergency Telephone Numbers:	011 454 0908

2.HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 GHS Classification:	Not applicable.
2.3 Hazard Statements:	No hazard statements.
2.4 Prevention Statements:	Nil
2.5 Response Statements:	No response statements.
2.6 Storage Statements:	No storage statements.
2.7 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Cellulose Fiber	9004-34-6	89%
Micro organisms	68582-990	5%
Hessian	Not Listed	5%
Flame Retardant	68112-30-1	1%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures	Nil
4.2 Medical Attention and Special Treatment Nil	
First Aid Facilities:	No special facilities required.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:

Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.

5.2 Specific Hazards Arising From The Chemical:

Non-flammable. On combustion, may emit traces of incompletely burned carbon compounds, to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency

No PPE required on application
Use vinyl gloves to remove spent Oil Mats

6.2 Environmental Precautions:

N/A

Dispose of waste material through The SoilClean Remediation Methodology.

6.3 Methods and Materials for Containment and clean up

N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store away from oxidising agents and strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:

Not Listed

8.2 Biological Limit Values:

No biological limit allocated.

8.3 Engineering Controls:

Avoid combustible agents and acids

8.4 Personal Protective Equipment:

Vinyl gloves to be worn to remove spent Oil Booms

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:

Hessian cloth

Odour:

Organic
7 – 7.6

pH:

Not applicable

Viscosity (cP @ 25 °C):

Not applicable

Vapor Pressure:

Not applicable

Boiling Point (°C):

Not applicable

Freezing Point (°C):

Not determined

Melting Point (°C):

Not determined

Solubility In Water (g/100 mL):

InSoluble

Specific Gravity (@ 25 °C):

Not applicable

Flash Point (°C):

+150°C

Lower Explosive Limit (%):

Not determined

Upper Explosive Limit (%):

Not determined

Autoignition Temp (°C):	Not determined
Decomposition Temp (°C):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	N/A
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure:	N/A
11.2 Health Effects From Likely Route of Exposure:	N/A
Acute:	N/A
Ingestion:	N/A
Eye:	N/A
Skin:	N/A
Inhalation:	N/A
Chronic:	N/A
11.3 Other Information:	No known applicable information.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Contaminate is decomposed
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated 13.3 Environmental Regulations:	N/A Packaging: Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15 . OTHER INFORMATION

15.1 Issue Date:	1 June 2023.
15.2 Contact Points:	Title / Position: Research & Development Manager.
Telephone:	011 454 0908
E-mail:	sales@drillclean.co.za

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MATERIAL SAFETY DATA SHEETS

Protecto Oil Boom

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Protecto Oil Boom

1.2 UN Proper Shipping Name:	None allocated
1.3 Recommended Use:	Retrieve and retain hydrocarbons in water
1.4 Supplier:	DrillClean [Pty] Ltd
1.5 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.6 Telephone Number:	011 454 0908
1.7 Email:	sales@drillclean.co.za
1.8 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 GHS Classification:	Not applicable.
2.3 Hazard Statements:	No hazard statements.
2.4 Prevention Statements:	Nil
2.5 Response Statements:	No response statements.
2.6 Storage Statements:	No storage statements.
2.7 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Cellulose Fiber	9004-34-6	89%
Micro organisms	68582-990	5%
Hessian	Not Listed	5%
Flame Retardant	68112-30-1	1%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures	Nil
4.2 Medical Attention and Special Treatment Nil	
First Aid Facilities:	No special facilities required.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
5.2 Specific Hazards Arising From The Chemical:	Non-flammable. On combustion, may emit traces of incompletely burned carbon compounds, to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:	No PPE required on application Use vinyl gloves to remove spent Oil Mats N/A
6.2 Environmental Precautions:	Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	
7.2 Conditions for Safe Storage, Including Any Incompatibilities:	Store away from oxidising agents and strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:	Not Listed
8.2 Biological Limit Values:	No biological limit allocated.
8.3 Engineering Controls:	Avoid combustible agents and acids
8.4 Personal Protective Equipment:	Vinyl gloves to be worn to remove spent Oil Booms

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:	Hessian cloth
Odour:	Organic
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	InSoluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	+150°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined
Autoignition Temp (°C):	Not determined
Decomposition Temp (°C):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	N/A
10.4 Incompatible Materials and Possible	Strong oxidising agents and strong acids.

Hazardous Reactions:
10.5 Hazardous Decomposition Products:

The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure:	N/A
11.2 Health Effects From Likely Route of Exposure:	N/A
Acute:	N/A
Ingestion:	N/A
Eye:	N/A
Skin:	N/A
Inhalation:	N/A
Chronic	N/A
11.3 Other Information:	No known applicable information.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Contaminate is decomposed
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated	N/A Packaging:
13.3 Environmental Regulations:	Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15 . OTHER INFORMATION

15.1 Issue Date:	1 June 2023.
15.2 Contact Points:	Title / Position: Research & Development Manager.
Telephone:	011 454 0908
E-mail:	sales@drillclean.co.za

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MATERIAL SAFETY DATA SHEETS

H2O Oil ABSORBENT Version:1 Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

H2O Oil ABSORBENT

1.1 Recommended Use:	Retrieve and retain hydrocarbons in water
1.2 Supplier:	DrillClean [Pty] Ltd
1.3 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.4 Telephone Number:	011 454 0908
1.5 Email:	sales@drillclean.co.za
1.6 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods. Not applicable.
2.2 GHS Classification:	No hazard statements.
2.3 Hazard Statements:	Nil
2.4 Prevention Statements:	No response statements.
2.5 Response Statements:	No storage statements.
2.6 Storage Statements:	Dispose of waste material through The SoilClean
2.7 Disposal Statements:	Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Cellulose Fiber	9004-34-6	89%
Micro organisms	68582-990	5%
Hessian	Not Listed	5%
Flame Retardant	68112-30-1	1%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures	Nil
4.2 Medical Attention and Special Treatment	Nil
First Aid Facilities:	No special facilities required.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
5.2 Specific Hazards Arising From The Organic chemical:	Non-flammable. On combustion, may emit traces of incompletely burned carbon compounds, to vapour or products of combustion

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and	
Emergency Procedures:	No PPE required on application Use vinyl gloves to remove spent Oil Boom
6.2 Environmental Precautions:	Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	
7.2 Conditions for Safe Storage,	Store away from oxidising agents and strong acids
Including Any Incompatibilities:	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:	Not Listed
8.2 Biological Limit Values:	No biological limit allocated.
8.3 Engineering Controls:	Avoid combustible agents and acids
8.4 Personal Protective Equipment:	Vinyl gloves to be worn to remove spent Oil Booms

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:	Brown Fibre
Odour:	Organic
pH:	7 – 7.6
Viscosity (cP @ 25 C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	Soluble
Specific Gravity (@ 25 C):	Not applicable
Flash Point (°C):	+150°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	N/A
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: ☐ Inhalation ☒ Skin contact ☒ Ingestion

Health Effects From Likely Route of Exposure:

Ingestion:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting, diarrhoea and gastrointestinal irritation.
Eye:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.
Skin:	No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Contaminate is decomposed
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated	N/A Packaging:
13.3 Environmental Regulations:	Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15 . OTHER INFORMATION

15.1 Issue Date:	1 June 2023.
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15.2 Contact Points:**Title / Position:****Telephone:****E-mail:**

Research & Development Manager.

011 454 0908

sales@drillclean.co.za

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MATERIAL SAFETY DATA SHEETS

Sweep Up

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Sweep Up

1.1 Recommended Use:	DrillClean [Pty] Ltd
1.2 Supplier:	114 Boeing Road East Bedford View Gauteng 1900
1.3 Address:	011 454 0908
1.4 Telephone Number:	sales@drillclean.co.za
1.5 Email:	011 454 0908
1.6 Emergency Telephone Numbers:	

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 Hazard Statements	No hazard statements.
2.3 Prevention Statements:	Nil
2.4 Response Statements:	No response statements.
2.5 Storage Statements:	No storage statements.
2.6 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Cellulose Fiber	9004-34-6	85%
Calcium Carbonate	471-34-1	15%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures:	Nil
4.2 Medical Attention and Special Treatment:	Nil
First Aid Facilities:	No special facilities required.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
5.2 Specific Hazards Arising From The Organic Chemical:	Non-flammable. On combustion, may emit traces of incompletely burned carbon compounds, to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective:	No PPE required on application
Equipment and Emergency Procedures:	Use vinyl gloves to remove spent Oil Mats N/A
6.2 Environmental Precautions:	Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up:	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	Store away from oxidising agents and strong acids
7.2 Conditions for Safe Storage, Including Any Incompatibilities:	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:	Not Listed
8.2 Biological Limit Values:	No biological limit allocated.
8.3 Engineering Controls:	Avoid combustible agents and acids
8.4 Personal Protective Equipment: Skin:	Vinyl gloves to be worn to remove spent Oil Booms

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:	Hessian Cloth
Odour:	Organic
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	InSoluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	+150°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined
Autoignition Temp (°C):	Not determined
Decomposition Temp (°C):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	N/A
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: <input type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Skin contact	<input checked="" type="checkbox"/> Ingestion
11.2 Health Effects From Likely Route of Exposure:		
Acute:	N/A	
Ingestion:	N/A	
Eye:	N/A	
Skin:	N/A	
Inhalation:	N/A	
Chronic	N/A	
Ingestion:	N/A	
Skin:	N/A	
Inhalation:	N/A	
11.3 Other Information:	No known applicable information.	

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Contaminate is decomposed
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated	N/A
13.3 Environmental Regulations:	Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15 . OTHER INFORMATION

15.1 Issue Date: 1 June 2023.

15.2 Contact Points:

Title / Position: Research & Development Manager.

Telephone: 011 454 0908

E-mail: sales@drillclean.co.za

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Soil Remediation



SOILCLEAN APPLICATION.

Oil Spill in situ

1. Loosen and turn the contaminated soil to the depth of ingress.
2. Liberally broadcast the SoilClean over the contaminated soil.
3. Evenly broadcast Vital Air and H2O Gel over the SoilClean.
4. Thoroughly work the components into the soil.
5. Once completed water well.

NB: To accelerate the remediation process: weekly aerate by turning the soil and water.

The SoilClean Rehabilitation kits contain 5 x 1Kg SoilClean 100gr Vital Air and 100gr
2 HO Gel

Hydrocarbon Contaminated Soil Stock Pile.

1. Level out the stock pile.
2. Place an equal amount of fresh soil into the stock pile and work in well
3. Broadcast SoilClean over the levelled stock pile at ration 10Kg SoilClean to one Cubic metre / four wheelbarrow.
4. Evenly broadcast 1Kg H2O Gel and 2Kg Vital Air over the SoilClean.
5. Thoroughly work the components into the soil.
6. Once completed water well.

NB: To accelerate the remediation process: weekly aerate by turning the soil and water.



DrillClean [Pty] Ltd

114 Boeing Road East , Bedford View , Gauteng , 2007 , P.O.Box , 6
Telephone : 0103125969

MATERIAL SAFETY DATA SHEETS

Soil Clean Version:

1 Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Soil Clean

1.2 UN Proper Shipping Name:	None allocated
1.3 Recommended Use:	To decompose hydrocarbons
1.4 Supplier:	DrillClean [Pty] Ltd
1.5 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.6 Telephone Number:	011 454 0908
1.7 Email :	sales@drillclean.co.za
1.8 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 GHS Classification:	Not applicable.
2.3 Hazard Statements:	No hazard statements.
2.4 Prevention Statements:	Nil
2.5 Response Statements:	No response statements.
2.6 Storage Statements:	No storage statements.
2.7 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Micro organisms	68582-990	5%
Enzymes	9012-54-8	5%
Vegetable tissue	8001-24-4	80%
Vital Air	7631-99-4	10%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures Ingestion:

Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.

Eye:

Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.

Skin:

Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.

Inhalation:	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.
4.2 Medical Attention and Special Treatment First Aid Facilities:	No special facilities required.
Comments:	Treat according to person's condition and specifics of exposure.
Advice to Doctor:	Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
5.2 Specific Hazards Arising From The Organic chemical:	Combustible

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:	Dust Mask N/A
6.2 Environmental Precautions:	Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	
7.2 Conditions for Safe Storage, Including Any Incompatibilities:	Store away from oxidising agents and strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:	Not Listed
8.2 Biological Limit Values:	No biological limit allocated.
8.3 Engineering Controls:	Avoid combustible agents and acids
8.4 Personal Protective Equipment:	Dust Mask on application

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties	
Appearance:	Brown / Yellowish
Odour:	Organic
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	Insoluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	80°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	N/A
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: <input type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Skin contact	<input checked="" type="checkbox"/> Ingestion
11.2 Health Effects From Likely Route of Exposure: Ingestion:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting, diarrhoea and gastrointestinal irritation.	
Eye:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.	
Skin:	No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.	

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Contaminate is decomposed
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated	N/A Packaging:
13.3 Environmental Regulations:	Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15. OTHER INFORMATION

15.1 Issue Date:	1 June 2023.
15.2 Contact Points:	
Title / Position:	Research & Development Manager.
Telephone:	011 454 0908
E-mail:	sales@drillclean.co.za

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DrillClean [Pty] Ltd

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MATERIAL SAFETY DATA SHEETS

Vital Air / Smell Gone

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Vital Air / Smell Gone

1.2 UN Proper Shipping Name:	None allocated
1.3 Recommended Use:	Oxygen supplement
1.4 Supplier:	DrillClean [Pty] Ltd
1.5 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.6 Telephone Number:	011 454 0908
1.7 Email:	sales@drillclean.co.za
1.8 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 GHS Classification:	Not applicable.
2.3 Hazard Statements:	Oxidizing Agent
2.4 Prevention Statements:	Emits nitrous oxides when heated to decomposition. No response statements.
2.5 Response Statements:	
2.6 Storage Statements:	Store away from oxidising agents and strong acids
2.7 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Forms of Sodium	7631-99-4	100%
Ingredients determined not to be hazardous		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures

Ingestion:	Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.
Eye:	Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.
Skin:	Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.
Inhalation:	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.

4.2 Medical Attention and Special Treatment First Aid Facilities:

No special facilities required.

Comments: Advice to	Treat according to person's condition and specifics of exposure.
Doctor:	Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
5.2 Specific Hazards Arising From	Not Combustible , emits nitrous oxides when heated to decomposition
The Organic chemical:	

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:	Dust Mask , Vinyl , Eye Glasses Remove all sources of ignition
6.2 Environmental Precautions:	Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up	N/A

7. HANDLING AND STORAGE

7.2 Conditions for Safe Storage,	Keep in a tightly closed container, stored in a cool, dry, ventilated area Protect against physical damage and moisture. Isolate from any source of heat or ignition.
---	---

Including Any Incompatibilities:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Biological Limit Values:	No biological limit allocated.
8.2 Engineering Controls:	Avoid combustible agents and acids
8.3 Personal Protective Equipment:	Dust Mask on application

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties	
Appearance:	White Granules
Odour:	Neutral
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	Soluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	80°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	Protect against physical damage and moisture. Isolate from any source of heat or ignition
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	Once the chemical reaction has ceased the remaining residue is calcium carbonate

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: [] Inhalation	11.2 Health	[X] Skin contact	[X] Ingestion
Effects From Likely Route of Exposure:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting, diarrhoea and gastrointestinal irritation.		
Ingestion:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis. No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.		
Eye:			
Skin:			

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Once the chemical reaction has ceased the remaining residue is calcium carbonate
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	SoilClean Remediation Methodology
13.2 Disposal of Contaminated	N/A Packaging:
13.3 Environmental Regulations:	Not relevant

14 .TRANSPORTATION INFORMATION

14.1 UN Number:	UN 1479
14.2 Dangerous Goods Class:	Hazard Class: 5.1
14.3 Environmental Hazards:	Oxidizer
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Packaging Group

15 . OTHER INFORMATION

15.1 Issue Date:	1 June 2023.
15.2 Contact Points: Title	Research & Development Manager.
/ Position: Telephone:	011 454 0908
E-mail:	sales@drillclean.co.za

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MATERIAL SAFETY DATA SHEETS

H2O Gel

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

H2O GEL

1.2 UN Proper Shipping Name:	None allocated
1.3 Recommended Use:	H2O Encapsulate
1.4 Supplier:	DrillClean [Pty] Ltd
1.5 Address:	114 Boeing Road East Bedford View Gauteng
1.6 Telephone Number:	011 454 0908
1.7 Email:	sales@drillclean.co.za
1.8 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous Goods.
2.2 GHS Classification:	Not applicable.
2.3 Hazard Statements:	No hazard statements.
2.4 Prevention Statements:	Nil
2.5 Response Statements:	No response statements.
2.6 Storage Statements:	No storage statements.
2.7 Disposal Statements:	Dispose of waste material through The SoilClean Remediation Methodology.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Poly Acrylic	9003-01-4	100%
Ingredients determined not to be hazardous		
(Balance to 100%)		

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures	
Ingestion:	Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.
Eye:	Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.
Skin:	Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.
Inhalation:	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.
4.2 Medical Attention and Special Treatment	
First Aid Facilities:	No special facilities required.
Comments:	Treat according to person's condition and specifics of exposure.

Advice to Doctor: Treat symptomatically

5.1 Suitable Extinguishing Equipment: 5.2 Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.
Specific Hazards Arising From The Organic chemical: Not Combustible

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Dust Mask
N/A
6.2 Environmental Precautions: Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:
7.2 Conditions for Safe Storage, Including Any Incompatibilities: Store away from oxidising agents and strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards: Not Listed
8.2 Biological Limit Values: No biological limit allocated.
8.3 Engineering Controls: Avoid combustible agents and acids
8.4 Personal Protective Equipment: Dust Mask on application

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties
Appearance: Clear /Transparent
Odour: Granules Organic
pH: 7 – 7.6
Viscosity (cP @ 25 °C): Not applicable
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Boiling Point (°C): Not applicable
Freezing Point (°C): Not determined
Melting Point (°C): Not determined
Solubility In Water (g/100 mL): Soluble
Specific Gravity (@ 25 °C): Not applicable
Flash Point (°C): 80°C
Lower Explosive Limit (%): Not determined
Upper Explosive Limit (%): Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity: N/A
10.2 Chemical Stability: N/A
10.3 Conditions To Avoid: N/A
10.4 Incompatible Materials and Possible Hazardous Reactions: Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products: The Soil Clean Remediation Methodology Decomposes the hydrocarbons present.

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: ☐ Inhalation ☒ Skin contact ☒ Ingestion

11.2 Health Effects From Likely Route of

Exposure:

Ingestion:

Eye:

Skin:

Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting, diarrhoea and gastrointestinal irritation.

Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.

No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

12.2 Persistence and Degradability:

12.3 Bioaccumulation Potential:

12.4 Mobility in Soil:

12.5 Other Adverse Effects:

N/A

Biodegradable.

N/A

Contaminate is decomposed No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:

13.2 Disposal of Contaminated

13.3 Environmental Regulations:

SoilClean Remediation Methodology

N/A Packaging:

Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:

14.2 Dangerous Goods Class:

14.3 Environmental Hazards:

14.4 HAZCHEM Code:

14.5 Additional Shipping Information

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

15 . OTHER INFORMATION

15.1 Issue Date:

15.2 Contact Points:

Telephone:

E-mail:

1 June 2023.

Title / Position: Research & Development Manager.

011 454 0908

sales@drillclean.co.za

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for

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Breaking down
Hydrocarbon &
Polymers
in the water phase



Breaking down hydrocarbons and polymers in sump water

Instructions for use:

Pour or scatter SumpClear liquid or SumpClear Granuals into the sump at a ratio of 5lt/5Kg per 1000 litre water. Leave to action for 24 hours prior to evacuating the sump.

Implement the SoilClean remediation methodology after evacuating to ensure a contaminated free environment.



DrillClean [Pty] Ltd

114 Boeing Road East , Bedford View , Gauteng , 2007 , P.O.Box , 6
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MATERIAL SAFETY DATA SHEETS

Sump Clear Liquid

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

Sump Clear Liquid

1.1 Recommended Use:	Emulsify hydrocarbons & polymers present in a water phase
1.2 Supplier:	
1.3 Address:	DrillClean [Pty] Ltd
1.4 Telephone Number:	114 Boeing Road East Bedford View Gauteng 1900
1.5 Email	011 454 0908
1.6 Emergency Telephone Numbers:	sales@drillclean.co.za
	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Hazardous Substance. Dangerous Goods.
2.2 Hazard Statements:	Oxidizing Agent
2.3 Prevention Statements:	Emits nitrous oxides during decomposition.
2.4 Response Statements:	No response statements.
2.5 Storage Statements:	Store away from oxidising agents and strong acids
2.6 Disposal Statements:	Once the chemical reaction has taken place the product becomes inert

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Forms of Sodium	7631-99-4	85%
Nonionic surfactant	9002-92-0	<2%
Ingredients determined to be hazardous		100%

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures:

◆ Ingestion:	Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.
◆ Eye:	Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.
◆ Skin:	Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.

◆ Inhalation:	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.
4.2 Medical Attention and Special Treatment:	
◆ First Aid Facilities:	No special facilities required.
◆ Comments:	Treat according to person's condition and specifics of exposure.
◆ Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool
5.2 Specific Hazards Arising From The Organic Organic chemical:	Combustible Emits nitrous oxides during decomposition.
5.3 Special Protective Equipment and Precautions For Fire Fighters:	Determine the need to evacuate or isolate the area according to your local emergency plan. Fire fighters should wear self- contained breathing apparatus to minimise risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective: Equipment and Emergency Procedures:	Impermeable gloves, eye glasses
6.2 Specific Hazards Arising From The Combustible Organic chemical: Equipment and Emergency Procedures:	Emits nitrous oxides when heated to decomposition. Remove all sources of ignition. Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up:	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	Use in a well-ventilated area. Avoid breathing in mists or vapour. Avoid skin and eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, smoking or using toilet facilities.
7.2 Conditions for Safe Storage, Including Any Incompatibilities:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. heat or ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Biological Limit Values:	No biological limit allocated
8.2 Engineering Controls:	Avoid combustible agents and acids
8.3 Personal Protective Equipment:	Dust Mask on application
8.4 Biological Limit Values:	Not exposure standard allocated.
8.5 Engineering Controls:	Ensure adequate ventilation. If mists or vapours are produced local exhaust ventilation should be used.
8.6 Personal Protective Equipment:	Domestic quantities require no special equipment with

Respiratory:	normal careful use. When handling bulk quantities. Avoid breathing mists or vapours. Where ventilation is inadequate and mists or vapours are generated, respiratory protective equipment should be used suitable for protecting against airborne contaminants. Reference should be made to Avoid eye contact. Safety
Eye:	glasses with side shields , goggles or face should be worn. Eye protection should conform with Eye protectors for industrial applications
Skin:	Domestic quantities require no special equipment with normal careful use. Care should be taken with sensitive or Damaged skin . When handling bulk quantities. Wear gloves of impervious material. Wear appropriate clothing, including a chemical resistant apron, where clothing is likely to be contaminated. Industrial clothing should conform to the specifications for Industrial Clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:	White Granules
Odour:	Neutral
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	Not applicable
Freezing Point (°C):	Not applicable
Melting Point (°C):	Not applicable
Solubility In Water (g/100 mL):	Soluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	80°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	Protect against physical damage and moisture. Isolate from any source of heat or ignition.
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	Once the chemical reaction has taken place the product becomes inert

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: <input type="checkbox"/> Inhalation	11.2 <input checked="" type="checkbox"/> Skin contact <input checked="" type="checkbox"/> Ingestion
Health Effects From Likely Route of Exposure:	
Acute:	N/A
Ingestion:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments.
Eye:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.
Skin:	Sever irritation expected from a single short-term exposure. The material may accentuate pre-existing skin conditions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Once the chemical reaction has ceased the remaining residue is calcium carbonate
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	N/A
13.2 Disposal of Contaminated	N/A
13.3 Environmental Regulations:	N/A

14. TRANSPORTATION INFORMATION

14.1 UN Number:	UN 1479
14.2 Dangerous Goods Class:	Hazard Class: 5.1
14.3 Environmental Hazards:	Oxidizer
14.4 HAZCHEM Code:	58/2014
14.5 Additional Shipping Information:	Packing Group: III

15 . OTHER INFORMATION

15.1 Issue Date: 1 June 2023.

15.2 Contact Points:

Title / Position: Research & Development Manager.

Telephone: 011 454 0908

E-mail: sales@drillclean.co.za

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DrillClean [Pty] Ltd

114 Boeing Road East , Bedford View , Gauteng , 2007 , P.O.Box , 6
Telephone : 0103125969

MATERIAL SAFETY DATA SHEETS

Sump Clear Granules Version: 1 Issued: 1 June 2023

Not classified as hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals 3rd Revised Edition.

Sump Clear Granules

1.1 Recommended Use:

Emulsify hydrocarbons & polymers present in a water phase

1.2 Supplier:

1.3 Address:

1.4 Telephone Number:

1.5 Email

1.6 Emergency Telephone Numbers:

DrillClean [Pty] Ltd
114 Boeing Road East Bedford View Gauteng
1900
011 454 0908
sales@drillclean.co.za
011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:

Hazardous Substance. Dangerous Goods.

2.2 GHS Classification:

Oxidizing Agent

2.3 Hazard Statements:

No hazard statements.

2.4 Prevention Statements:

Emits nitrous oxides during decomposition.

2.5 Response Statements:

No response statements.

2.6 Storage Statements:

Store away from oxidising agents and strong acids

2.7 Disposal Statements:

Once the chemical reaction has taken place the product becomes inert

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Sodium Carbonate	497-34-1	95%
Calcium carbonate	471-19-8	5%
Ingredients determined to be hazardous		100%

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures:

◆ **Ingestion:**

Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.

◆ **Eye:**

Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.

◆ Skin:	Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.
◆ Inhalation:	Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.
4.2 Medical Attention and Special Treatment:	
◆ First Aid Facilities:	No special facilities required.
◆ Comments:	Treat according to person's condition and specifics of exposure.
◆ Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:	Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool
5.2 Specific Hazards Arising From The Organic Organic chemical:	Combustible Emits nitrous oxides during decomposition.
5.3 Special Protective Equipment and Precautions For Fire Fighters:	Determine the need to evacuate or isolate the area according to your local emergency plan. Fire fighters should wear self- contained breathing apparatus to minimise risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective: Equipment and Emergency Procedures:	Impermeable gloves, eye glasses
6.2 Specific Hazards Arising From The Combustible Organic chemical: Equipment and Emergency Procedures:	Emits nitrous oxides when heated to decomposition. Remove all sources of ignition. Dispose of waste material through The SoilClean Remediation Methodology.
6.3 Methods and Materials for Containment and clean up:	N/A

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:	Avoid skin and eye contact.
7.2 Conditions for Safe Storage,	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture.
Including Any Incompatibilities:	Isolate from any source Of heat or ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Biological Limit Values:	No biological limit allocated
8.2 Engineering Controls:	Avoid combustible agents and acids
8.3 Personal Protective Equipment:	Dust Mask and impermeable gloves on application
8.4 Biological Limit Values:	No biological limit allocated.
8.5 Engineering Controls:	Ensure adequate ventilation.
8.6 Personal Protective Equipment: Respiratory:	Domestic quantities require no special equipment with normal careful use

Eye:	Avoid eye contact. Safety glasses with side shields, goggles or face should be worn. Eye protection should conform with Eye protectors for industrial applications
Skin:	Domestic quantities require no special equipment with normal careful use. Care should be taken with sensitive or Damaged skin

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:	White Granules
Odour:	Neutral
pH:	7 – 7.6
Viscosity (cP @ 25 °C):	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Boiling Point (°C):	100°C
Freezing Point (°C):	Not determined
Melting Point (°C):	Not determined
Solubility In Water (g/100 mL):	Soluble
Specific Gravity (@ 25 °C):	Not applicable
Flash Point (°C):	80°C
Lower Explosive Limit (%):	Not determined
Upper Explosive Limit (%):	Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	N/A
10.2 Chemical Stability:	N/A
10.3 Conditions To Avoid:	Protect against physical damage and moisture. Isolate from any source of heat or ignition. Strong oxidising agents and strong acids.
10.4 Incompatible Materials and Possible Hazardous Reactions:	
10.5 Hazardous Decomposition Products:	Once the chemical reaction has taken place the product becomes inert

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: <input type="checkbox"/> Inhalation	11.2 <input checked="" type="checkbox"/> Skin contact <input checked="" type="checkbox"/> Ingestion
Health Effects From Likely Route of Exposure:	
Acute:	N/A
Ingestion:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments.
Eye:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.
Skin:	Sever irritation expected from a single short-term exposure. The material may accentuate pre-existing skin conditions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	Once the chemical reaction has ceased the remaining residue is calcium carbonate
12.5 Other Adverse Effects:	No adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	N/A
13.2 Disposal of Contaminated	N/A
13.3 Environmental Regulations:	N/A

14. TRANSPORTATION INFORMATION

14.1 UN Number:	UN 1479
14.2 Dangerous Goods Class:	Hazard Class: 5.1
14.3 Environmental Hazards:	Oxidizer
14.4 HAZCHEM Code:	58/2014
14.5 Additional Shipping Information:	Packing Group: III

15 . OTHER INFORMATION

15.1 Issue Date: 1 June 2023.

15.2 Contact Points:

Title / Position: Research & Development Manager.

Telephone: 011 454 0908

E-mail: sales@drillclean.co.za

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Degreasing
&
Cleaning



BIO WASH INSTRUCTIONS FOR USE:

Application:

Wet the surface prior to applying Bio Wash.

Simply pour Bio Wash onto the contaminated area and work it into the spillage, leave to stand, penetrate and action for a couple of minutes prior to washing off in water.

Dilution rates

Heavy soiling use at concentrated form.

General Cleaning dilute it to a ratio of 1part Bio Wash to 10 parts Water.



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Telephone : 0103125969

MATERIAL SAFETY DATA SHEETS

Bio Wash

Version: 1

Issued: 1 June 2023

CLASSIFICATION OF MATERIAL

Not classified as hazardous according to criteria of the Globally Harmonized System of Classification and Labelling of Chemicals 3rd Revised Edition.

Bio Wash

1.1 Recommended Use:	Retrieve and retain hydrocarbons in water
1.2 Supplier:	DrillClean [Pty] Ltd
1.3 Address:	114 Boeing Road East Bedford View Gauteng 1900
1.4 Telephone Number:	011 454 0908
1.5 Email:	sales@drillclean.co.za
1.6 Emergency Telephone Numbers:	011 454 0908

2. HAZARDS IDENTIFICATION

2.1 Hazard Classification:	Non-hazardous Substance. Non-Dangerous
2.2 GHS Classification:	Goods. Not applicable.
2.3 Hazard Statements:	No hazard statements.
2.4 Prevention Statements:	P102 Keep out of reach of children. P103 Read label before use.
2.5 Response Statements:	P104 Read Safety Data Sheet before use.
2.6 Storage Statements:	No response statements.
2.7 Disposal Statements:	No storage statements. P501 Dispose of waste material through a licensed contractor or facility.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion %
Cationic surfactant	68424-85-1	1-5%
Sodium bicarbonate	144-55-8	1-5%
Nonionic surfactant	9002-92-0	<2%
Chelating agent	139-89-9	<1%
Citric Acid	77-92-9	<1,5%
Preservative Proprietary Colours Proprietary Ingredients determined		<0.1%
not to be hazardous Not required		<0.1%
		(Balance to 100%)

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures:

- ◆ **Ingestion:** Immediately remove product from the mouth and rinse mouth out with plenty of water. Drink 1 or 2 glasses of water (or milk). If a large amount swallowed, or symptoms develop, obtain medical attention.
- ◆ **Eye:** Immediately hold the eyes open and wash with fresh running water for at least 15 minutes. Ensure complete irrigation of the eye by keeping the eyelids apart and away from the eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention.
- ◆ **Skin:** Remove any contaminated clothing. Wash off with soap and water. If skin irritation occurs, seek medical attention.
- ◆ **Inhalation:** Remove from source of exposure. Monitor symptoms and progress to assess the need for medical attention.

4.2 Medical Attention and Special Treatment:

- ◆ **First Aid Facilities:** No special facilities required.
- ◆ **Comments:** Treat according to person's condition and specifics of exposure.
- ◆ **Advice to Doctor:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing Equipment:

Carbon dioxide, dry chemical powder, water spray or fog and foam may be used as extinguishing media.

5.2 Specific Hazards Arising From The Organic chemical:

Non-flammable. On combustion, may emit traces of incompletely burned carbon compounds, to vapour or products of combustion

5.3 Special Protective Equipment and Precautions For Fire Fighters:

Determine the need to evacuate or isolate the area according to your local emergency plan. Fire fighters should wear self- contained breathing apparatus to minimise risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective: Equipment and Emergency Procedures:

Avoid eye and skin contact. Determine whether to evacuate or isolate the area according to your local emergency plan. Caution, spill site may be slippery. Increase ventilation. Evacuate all unprotected personnel. Use full protective clothing and equipment to minimise exposure.

6.2 Environmental Precautions:

Prevent run off into drains and waterways. If a large quantity of this material enters the environment, contact the relevant regulatory authorities. Dispose of waste according to local regulations.

6.3 Methods and Materials for Containment and clean up:

Observe all personal protective equipment recommendations described in this MSDS. Contain spill. If leaked material can be pumped, store recovered material in appropriate containers. Clean

up remaining materials from spill with suitable absorbent. Dispose of saturated absorbent material or cleaning materials appropriately. Laws and regulations may apply to releases and disposal of this material. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid skin and eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking, smoking or using toilet facilities.

7.2 Conditions for Safe Storage, Including Any Incompatibilities:

Store in a cool, dry area, away from heat and out of direct sunlight. Store away from oxidising agents and strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 National Exposure Standards:

Not exposure standard allocated.

8.2 Biological Limit Values:

No biological limit allocated

8.3 Engineering Controls:

Not Applicable

8.4 Personal Protective Equipment:

Respiratory:

Vinyl gloves to be worn to remove spent Oil Booms
Domestic quantities require no special equipment with normal careful use.

Eye:

Domestic quantities require no special equipment with normal careful use. When handling bulk quantities. Avoid eye contact. Safety glasses with side shields, goggles or face shield should be worn. Eye protection should conform with AS/NZS 1337 Eye protectors for industrial applications.

Skin:

Domestic quantities require no special equipment with normal careful use. Care should be taken with sensitive or damaged skin. When handling bulk quantities. Wear gloves of impervious material. Refer to AS/NZS 2161.1 Occupational protective gloves – Selection use and maintenance.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description / Properties

Appearance:

Green Liquid

Odour:

Neutral odour

pH:

7 – 7.6

Viscosity (cP @ 25 °C):

<100

Vapor Pressure:

Not applicable

Vapor Density:

Not applicable

Boiling Point (°C):

100°C

Freezing Point (°C):

Not determined

Melting Point (°C):

Not determined

Solubility In Water (g/100 mL):

Soluble in all proportions

Specific Gravity (@ 25 °C):

~1.0g/mL

Flash Point (°C):

Zero

Lower Explosive Limit (%):

Not determined

Upper Explosive Limit (%):

Not determined

Autoignition Temp (°C):

Not determined

Decomposition Temp (°C):

Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity:	Hazardous polymerisation will not occur
10.2 Chemical Stability:	The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3 Conditions To Avoid:	Direct sunlight and heat
10.4 Incompatible Materials and Possible Hazardous Reactions:	Strong oxidising agents and strong acids.
10.5 Hazardous Decomposition Products:	Not Applicable

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure: <input type="checkbox"/> Inhalation	11.2 <input checked="" type="checkbox"/> Skin contact <input checked="" type="checkbox"/> Ingestion
Health Effects From Likely Route of Exposure:	
Acute:	N/A
Ingestion:	Low ingestion hazard in normal use. Considered an unlikely route of entry in commercial/industrial environments. Low toxicity. Large doses may result in nausea, vomiting, diarrhoea and gastrointestinal irritation.
Eye:	Direct contact may produce mild irritation to the eye causing some inflammation and lachrymation. Repeated or prolonged exposure may produce corneal damage or conjunctivitis.
Skin:	No significant irritation expected from a single short-term exposure. Itching, redness and rash may occur in susceptible individuals. The material may accentuate pre-existing skin conditions.
Inhalation:	Considered an unlikely route of entry
Chronic:	N/A
11.3 Other Information:	No known applicable information

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	N/A
12.2 Persistence and Degradability:	Biodegradable.
12.3 Bioaccumulation Potential:	N/A
12.4 Mobility in Soil:	No information available.
12.5 Other Adverse Effects:	No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Method:	Single unit: Dispose of into landfill. Large amounts: Prevent drain or sewer contamination. Reclaim or dispose of in accordance with local, state and federal regulations.
13.2 Disposal of Contaminated	Recycle or landfill.
13.3 Environmental Regulations:	Not relevant

14. TRANSPORTATION INFORMATION

14.1 UN Number:	Not applicable.
14.2 Dangerous Goods Class:	Not applicable.
14.3 Environmental Hazards:	Not applicable.
14.4 HAZCHEM Code:	Not applicable.
14.5 Additional Shipping Information:	Not applicable.

15. REGULATORY INFORMATION

15.1 SUSDP Poisons Schedule:

None allocated.

15.2 Prohibition / Licensing Requirements:

There are no applicable prohibition or notification / licensing requirements, including for carcinogens under Local legislation.

16 . OTHER INFORMATION

16.1 Issue Date: 1 June 2023.

16.2 Contact Points:

Title / Position: Research & Development Manager.

Telephone: 011 454 0908

E-mail: sales@drillclean.co.za

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