

ProAvita™ ProEnhance

SECTION 1 - Identification of the substance/mixture and of the company/undertaking

1.1. - Product identifier

Trade name ProAvita™ ProEnhance
Chemical name Biodegradable Pre-treatment Surfactant
Product-type Mixture
Product code TX-PEH-02

1.2. - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture - Sequestering, Demineralizing and Stabilizing agent

1.3. - Details of the supplier of the safety data sheet

Proklean Technologies Pvt. Ltd.
Plot No. 108 & 109, Perumal Nagar,
Thirumudivakkam
600044 Chennai India

B. Chandrasekhar: +91-44-65556855 contact@proklean.in

1.4. - Emergency telephone number

Emergency contact number: +91-44-65556855 (24 hours service)

SECTION 2 - Hazards identification

2.1. - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Not Classified	Not classified
----------------	----------------

2.2. - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word : None
Pictograms : None
Hazard statements : None
Precautionary statements : None
EUH-phrases : None

2.3. - Other hazards

PBT substance or mixture - Not a PBT
vPvB substance or mixture - Not a vPvB
Other hazards which do not result in classification - None under normal conditions

SECTION 3 - Composition/information on ingredients

3.1. - Substances

Not applicable

ProAvita™ ProEnhance

3.2. - Mixtures

- Confidential ingredients, which are not classified according to the EU CLP regulation

SECTION 4 - First aid measures

4.1. - Description of first aid measures

Measures in case of inhalation

- Provide fresh air.

Measures in case of contact with skin

- Wash immediately with: Water

Measures in case of contact with eyes

- Rinse immediately carefully and thoroughly with eye-bath or water.

- In case of eye irritation consult an ophthalmologist.

Measures in case of ingestion

- Rinse mouth thoroughly with water.

- Give plenty of water to drink

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

Symptoms and effects after inhalation

- No known symptoms or effects

Symptoms and effects after contact with skin

- No known symptoms or effects

Symptoms and effects after contact with eyes

- No known symptoms or effects

Symptoms and effects after ingestion

- No known symptoms or effects

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

- Treat symptomatically.

SECTION 5 - Firefighting measures

5.1. - Extinguishing media

Suitable extinguishing media

- Product is non-flammable aqueous preparation

Unsuitable extinguishing media

- Product is non-flammable aqueous preparation

5.2. - Special hazards arising from the substance or mixture

Decomposition products

- Not likely to release any hazardous decomposition products.

5.3. - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6 - Accidental release measures

6.1. - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.

For emergency responders

- No specific requirements

6.2. - Environmental precautions

- No specific measures required.

ProAvita™ ProEnhance

6.3. - Methods and material for containment and cleaning up

Appropriate containment techniques - No specific measures required.

Appropriate clean-up procedures - Wash with plenty of water.

Inappropriate techniques - No specific requirements.

6.4. - Reference to other sections

- Disposal: see section 13

- Personal protection equipment: see section 8

SECTION 7 - Handling and storage

7.1. - Precautions for safe handling

Recommendations - No special technical protective measures are necessary.

Advice on general occupational hygiene - Wash hands before breaks and after work.
- When using do not eat, drink, sniff.

7.2. - Conditions for safe storage, including any incompatibilities

- Ensure adequate ventilation of the storage area.
- Store away from direct sunlight.
- Store in original container in a cool, dry place.

7.3. - Specific end use(s)

- Refer section 1.2

SECTION 8 - Exposure controls/personal protection

8.1. - Control parameters

- No exposure limits known

8.2. - Exposure controls

Appropriate engineering controls - No specific measures required

Individual protection measures, such as personal protective equipment - Suitable protective clothing: lab coat



Environmental exposure controls - Not necessary

SECTION 9 - Physical and chemical properties

9.1. - Information on basic physical and chemical properties

<u>Physical state</u>	Liquid	<u>Appearance</u>	Liquid
<u>Color</u>	Light brown to dark brown	<u>Odor</u>	Sweet, Fermented

Odour threshold	No data available
pH	2.5 < V < 3.5

ProAvita™ ProEnhance

Melting point	Not applicable as product is a liquid
Freezing point	-1 °C
Boiling point	> 100 °C
Flash point	No flash point till boiling point
Evaporation rate	Equal to water
flammability	Nonflammable aqueous preparation
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	4.245 kPa At 30 degrees, centigrade
Vapour density	No data available
Relative density	0.9 < V < 1.07 At 25 degree C
Density	1.01 g/cm ³ < V < 1.02 g/cm ³
Solubility (Water)	Completely soluble in water.
Solubility (Ethanol)	No data available
Solubility (Acetone)	No data available
Solubility (Organic solvents)	No data available
Log KOC - Partition coefficient: n-octanol/water	Not applicable as product is a mixture
Auto-ignition temperature	Non-flammable
Decomposition temperature	> 150 °C
Kinematic viscosity	No data available
Dynamic viscosity	1.45 mPa.s

9.2. - Other information

VOC content	Negligible
Minimum ignition energy	Not applicable
Conductivity	Not relevant

SECTION 10 - Stability and reactivity

10.1. - Reactivity

- This material is non-reactive under normal use conditions.

10.2. - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4. - Conditions to avoid

- No specific requirements

10.5. - Incompatible materials

- Strong oxidizing agents, strong acids

10.6. - Hazardous decomposition products

- Does not decompose when used for intended uses.

ProAvita™ ProEnhance

SECTION 11 - Toxicological information

11.1. - Information on toxicological effects

<u>Acute toxicity</u>	- Not classified	
	LD50 oral (rat)	> 5000 mg/kg Wistar rats
	LD50 dermal (rat)	> 2000 mg/kg Wistar rats
	LD50 dermal (rabbit)	No data available
	LC50 inhalation (rat)	No data available
	LC50 inhalation dusts and mists (rat)	No data available
	LC50 inhalation vapours (rat)	> 2.12 mg/l Wistar rats

- Based on available data, the product is not classified as acute toxic according to the criteria specified in EU Regulation (EC) 1272/2008 [CLP]

<u>Skin corrosion/irritation</u>	- Not classified	
<u>Serious eye damage/irritation</u>	- Not classified	
<u>Respiratory or skin sensitization</u>	- Not classified	
<u>Germ cell mutagenicity</u>	- Not classified	
<u>Carcinogenicity</u>	- Not classified	
<u>Reproductive toxicity</u>	- Not classified	
<u>Specific target organ toxicity - Single exposure</u>	- Not classified	
<u>Specific target organ toxicity - Repeated exposure</u>	- Not classified	
<u>Aspiration hazard</u>	- Not classified	

SECTION 12 - Ecological information

12.1. - Toxicity

EC50 48 hr crustacea	No data available
LC50 96 hr fish	> 100 mg/l Fresh water fish (Brachydanio rerio)
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

- Based on available data, the product is not classified as acute aquatic toxic according to the criteria specified in EU Regulation (EC) 1272/2008 [CLP]

ProAvita™ ProEnhance

12.2. - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	78 mg/g
% of biodegradation in 28 days	81 % OECD 301 test method

12.3. - Bioaccumulative potential

Bioconcentration factor (BCF)	Not relevant as product is freely water-soluble.
Log KOC - Partition coefficient: n-octanol/water	Not applicable as product is a mixture

12.4. - Mobility in soil

- Not expected to be hazardous as biodegradability is high.

12.5. - Results of PBT and vPvB assessment

- Not a PBT

- Not a vPvB

12.6. - Other adverse effects

- No known adverse effect

SECTION 13 - Disposal considerations

13.1. - Waste treatment methods

<u>Appropriate methods of waste treatment</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No specific measures required.
<u>Special precautions for waste treatment</u>	- No specific measures required.
<u>Community or national or regional provisions</u>	- Not applicable

SECTION 14 - Transport information

14.1. - UN number

- Not applicable

14.2. - UN proper shipping name - Not applicable

14.3. - Transport hazard class(es) - Not applicable

14.4. - Packing group - Not applicable

14.5. - Environmental hazards - Nil

14.6. - Special precautions for user - Not applicable

14.7. - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code - Not applicable

ProAvita™ ProEnhance

SECTION 15 - Regulatory information

15.1. - Safety, health and environmental regulations/legislation specific for the substance or mixture

Components in the list of
Reach candidates None

Components in Annex XIV None

Components in Annex XVII None

VOC content Negligible

15.2. - Chemical safety assessment

Chemical safety assessment carried out - No information available. out
for the product

SECTION 16 - Other information

SDS versions

Version No.	Date of issue	Description of the amendments
1	14-06-17	

Texts of the regulatory sentences

Not Classified	Not classified	
----------------	----------------	--

*** **