

 PJ Margo Pvt. Ltd.	PJ Margo Pvt. Ltd., Unit II, Tumkur, Karnataka	
	Document: Material Safety Data Sheets Title : MSDS of ECOTONIC®	Document No: QF/PJM2/PROD/MSDS/010 Rev. : 00 Rev. Date: 02.05.2018

Material Safety Data Sheet (MSDS)

IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification	: ECOTONIC®
Use of the substance / preparation	: Biofertilizer (BIO – NPK Azotobacter based)
Company	: PJ Margo Pvt Ltd, Unit -2
Address	: Plot No: 64, Anthrasanahalli Industrial area Tumkuru, Karnataka, India
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HAZARDS IDENTIFICATION

May cause sensitization by inhalation
 May cause sensitization by skin contact
 Not classified as a physical hazard
 Not classified as an environmental hazard
 Prevention: Wear protective gloves/cloth/eye protection/face mask
 Avoid breathing dust/fume/gas/mist/vapours/spray

COMPOSITION / INFORMATION ON INGREDIENTS

Active ingredients	: <i>Azotobacter chroococcum</i> , (5x10 ⁷ CFU/ml) <i>Bacillus mucilaginosus</i> (5x10 ⁷ CFU/ml) <i>Bacillus megaterium</i> (5x10 ⁷ CFU/ml) Total viable count – 1.5x10 ⁸ CFU/ml
Product Form	: Liquid

FIRST AID PROCEDURES

Inhalation	: Remove to fresh air. Provide oxygen if breathing is laboured. Get medical aid.
Skin	: Remove contaminated clothing and wash well with soap and water. Get medical aid.

Eyes	: Irrigate with water for at least 15 minutes. Get medical aid.
Ingestion	: Have victim drink fluids to dilute material in stomach. Do not induce vomiting. If victim vomited, lean him/her forward to reduce inhalation. Get medical aid.

FIRE – FIGHTING MEASURES

Product is non-flammable under normal conditions of storage, manipulation and use.

Flash point : N/A

Flammable limits in air : N/A

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate leaks provided that there is no additional risk for the people performing this task.

Personal protection equipment must be used against potential contact with the spilt product.

Evacuate the area and keep out those who do not have.

Environmental precautions

Product not classified as dangerous for the environment, however it is necessary to avoid spillage as the product is classified as dangerous for health and/or its physicochemical properties.

Methods and material for containment and cleaning up

It is recommended

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents.

HANDLING AND STORAGE PRECAUTIONS

General precautions to be taken in handling and storage:

Do not breath vapours. Do not eat or drink during the process and washing hands afterwards with suitable cleaning products. Store in sealed container in a cool, dry place, preferably under room temperature. To maintain product integrity, protect from high temperatures. Keep container closed. Launder contaminated clothing before use. Wear protective equipment described above if exposure conditions warrant. Do not allow to contaminate water sources, food or feed.

Special precautionary conditions : None

EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

Respiratory protection	: Face mask
Eye protection	: Safety glasses.
Ventilation	: Well ventilated areas.
Protective gloves	: Required
Other protective equipment	: Eye wash, safety shower.

Note: Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

PHYSICAL AND CHEMICAL PROPERTIES

<i>Azotobacter chroococcum</i>	: 1X10 ⁸ CFU/ml
<i>Bacillus mucilaginosus</i>	: 1X10 ⁸ CFU/ml
<i>Bacillus megaterium</i>	: 1X10 ⁸ CFU/ml
Growth medium residues	: 99.00% w/w
Additive	: 01.00% w/w
Total	: 100.00% w/w
Physical state	: Liquid
Appearance	: Slightly brown
Odour	: Characteristic odour
Solubility in water	: Completely soluble
Boiling point	: Not applicable
Melting point	: Not applicable

STABILITY AND REACTIVITY

Product stability	: Stable under the conditions of storage
Hazardous polymerization	: Not applicable
Conditions to avoid	: Presents no special reactivity hazard
Material to avoid	: Not applicable
Decomposition products	: Biodegradable
Reactivity	: No hazardous reactions

TOXICOLOGICAL INFORMATION

Not applicable

ECOLOGICAL INFORMATION

This product is not classified as dangerous for environment.

This product has low persistence and their components are easily biodegraded.

This product contains biodegradable molecules and spores/cells of a natural occurring soil microorganisms.

This product does not contain any compound with bio-accumulative or toxic potential.

DISPOSAL CONSIDERATIONS

Waste residues in accordance with federal, State and local disposal or discharge regulations
Since empty packing contains residues of the product, all labelled hazard precaution should be observed.

Container disposal

Empty containers should triple washed or equivalent, discharging water into application equipment. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary

landfill or incineration, or if allowed by State and local authorities by burning. If burned, stay out of smokes.

TRANSPORT INFORMATION

This product is stable at room temperature during transportation. This product should be transported in tightly closed and labelled containers.

Others: Not applicable

REGULATORY INFORMATION

Product is as per FCO recommendation

OTHER INFORMATION

Not Applicable

Disclaimer

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise material safety data sheets periodically as new information becomes available. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose of any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. PJ Margo assumes no responsibility for any damages, losses, injuries or consequential damages which may result from the use or misuse of this product and the recipient assumes all such risks. AGRICULTURAL PURPOSE ONLY.