

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	ecoAgra, eA300
Registration number	-
Synonyms	None.
Issue date	20-July-2012
Version number	01
Revision date	04-August-2014
Supersedes date	20-July-2012
Global Harmonizing System:	HS1302.19.0100

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

Identified uses	Applied to Field Crops, Vegetables, Fruits, Greenhouse Plants, Trees, Shrubs, Grass House Plants and Produce Washing.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier	GET Technology Ltd. 31A Station Road, Whitley Bay NE26 2QZ, England 44 20 755 88735
Contact Manufacturer	John B. R. Walker ecoSolv Technologies, LLC 63 Klema Drive East, Reynoldsburg, Ohio 43068 USA
e-mail	info@ecosolv.com

1.4. Emergency telephone number	757-436-9266
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	May form vapours or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract. May irritate eyes.
Main symptoms	Irritant effects. Irritation of eyes and mucous membranes.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.

Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	Not applicable.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

Composition comments Product Ingredients: alkanolamines, amino acids, corn oil, nonionic surfactants, and plant based fatty acids, organic alcohol.

SECTION 4: First aid measures

General information Get medical attention if any discomfort develops.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact Wash with soap and water. Get medical attention if irritation develops and persists.
Eye contact Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion Not expected to be harmful in amounts likely to be ingested by accident.

4.2. Most important symptoms and effects, both acute and delayed Irritant effects. Irritation of eyes and mucous membranes.

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

SECTION 5: Firefighting measures

General fire hazards This product is not flammable.

5.1. Extinguishing media Suitable extinguishing media Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture Thermal decomposition may produce smoke, oxides of carbon and lower molecular weight organic compounds whose composition have not been characterised.

5.3. Advice for firefighters Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Ensure adequate ventilation. For personal protection, see section 8.

For emergency responders Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Small Spills: Absorb spillage with non-combustible, absorbent material.
Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water.

6.4. Reference to other sections For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe practices. Avoid contact with eyes and prolonged skin contact. Observe good industrial hygiene handling

7.2. Conditions for safe storage, including any incompatibilities Store in a cool and well-ventilated place. Store away from incompatible materials.

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits No exposure limits noted for ingredient(s).
Biological limit values No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures Follow standard monitoring procedures.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation and minimise the risk of inhalation of vapours and mists.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection If risk of splashing, wear safety goggles or face shield.

Skin protection

- Hand protection Wear protective gloves. PVC gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- Other Rubber, neoprene or PVC gloves are recommended. Wear suitable protective clothing.

Respiratory protection No personal respiratory protective equipment normally required. In case of inadequate ventilation or when the product is heated, use suitable respiratory equipment with gas filter (type A2). Seek advice from local supervisor.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Wash hands after handling. Handle in accordance with good industrial hygiene and safety practices. Follow up on any medical surveillance requirements.

Environmental exposure controls Contain spills and prevent releases and observe national regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Slightly viscous, clear yellow liquid.

Physical state Liquid.

Form Slightly viscous.

Colour Clear yellow.

Odour Faint.

Odour threshold Not available.

pH 9,7

Melting point/freezing point Not available.

Initial boiling point and boiling range 101,3 °C (214,4 °F)

Flash point > 93,3 °C (> 200 °F)

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit – lower (%) Not available.

Flammability limit – upper (%) Not available.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density Not available.

Solubility(ies) Complete.

Partition coefficient Not available.

(n-octanol/water)

Decomposition temperature Not available.

Viscosity Not applicable.

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

9.2. Other information

Bulk density Not applicable.

VOC (Weight %) 172 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity The product is non reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous reactions Hazardous reactions do not occur.

10.4. Conditions to avoid High temperatures. Exposure to light. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products Carbon oxides. Nitrogen oxides.

SECTION 11: Toxicological information

General information Not available.

Information on likely routes of exposure

Ingestion Ingestion may cause irritation and malaise.

Inhalation Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

Skin contact Prolonged skin contact may cause irritation.

Eye contact May cause eye irritation on direct contact.

Symptoms Not available.

11.1. Information on toxicological effects

Acute toxicity May form vapours or oil mists during mechanical action or at elevated temperatures which may be irritating to respiratory tract.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation May cause eye irritation on direct contact.

Respiratory sensitisation Not classified.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity There is no data to indicate that any component present at greater than 0.1% may present a risk.

Carcinogenicity Not classified by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity - single exposure Test data conclusive but not sufficient for classification.

Specific target organ toxicity - repeated exposure Test data conclusive but not sufficient for classification.

Aspiration hazard Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Mixture versus substance information Not available.

Other information No other specific acute or chronic health impact noted.

SECTION 12: Ecological information

12.1. Toxicity Oil spills are generally hazardous to the environment.

12.2. Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log K_{ow})	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
Mobility in general	This product is miscible in water.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	Not expected to be harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Follow all applicable MARPOL requirements for disposal of waste, when transporting materials by vessel.
Contaminated packaging	Not available.
EU waste code	13 07 03*
Disposal methods/information	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR	The product is not covered by international regulation on the transport of dangerous goods.
RID	The product is not covered by international regulation on the transport of dangerous goods.
ADN	The product is not covered by international regulation on the transport of dangerous goods.
IATA	The product is not covered by international regulation on the transport of dangerous goods.
IMDG	The product is not covered by international regulation on the transport of dangerous goods.

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances
Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Not listed.

Directive 94/33/EC on the protection of young people at work
Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. This product does not meet the criteria for classification according to Regulation (EC) 1272/2008 (CLP Regulation) and Directive 67/548/EEC and their amendments respectively.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment For this substance a chemical safety assessment has been carried out.

Other registered uses:

Production of Fatty acid methyl esters.
Formulation for Gasoil production.
Use of gasoil.

SECTION 16: Other information

List of abbreviations IARC: International Agency for Research on Cancer. NTP: National Toxicology Program. ACGIH: American Conference of Industrial Hygienists. OSHA: Occupational Safety and Health Administration. WHMIS: Workplace Hazardous Materials Information System.
References Not available.
Information on evaluation method leading to the classification of mixture Not available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15 None.

Training information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently available.