



Material Safety Data Sheet (MSDS)

Revision Date: 01.07.2020

SECTION 1 – INTRODUCTION

Product Name	ENVROS (Environmental Solut-ion)
Chemical name	Non-ionic, non-specified
Description	Used specific for herbicides, tank mix adjuvant
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SECTION 2 - COMPOSITION

Material	CAS number #	Form
Ammonium sulphate	77-83-20-2	solid
Non-ionic substances	-	liquid
Other ingredients	Not applied	Solid

SECTION 3 – TOXICOLOGICAL DATA

Non-ionic substance (NIS)	: Not applied
Ammonium sulphate	: Oral toxicity test LD50 > 15000 mg/Kg Rat Acute toxicity test LC50 819.27 ppm Guppy

SECTION 4 – HAZARDS IDENTIFICATION

Acute Potential Hazards	: Risk of irritate to eyes and irritate skin if contain in long exposure
Chronic Potential Hazards	: None carcinogenic, mutagenic, teratogenic effect by ACGIH, EPA, IARC, NTP, OSHA

SECTION 5 – FIRST AID MEASURES

Eye Contact	Check and remove each contact lens. Let the eyelid open and rinse immediately with running water for 15 minutes. Seek your doctor if irritation persists
Skin Contact	Wash the affected skin with water and soap while cleaning the contaminants. Seek medical advice immediately if irritation persists
Inhalation	Immediately move into an open place with clean air. Loosen tight clothing around neck and waist. If the symptoms persist, take the medical treatment.
Ingestion	Rinse your mouth and drink plenty of water. If unconscious, contact the doctor or medical personnel immediately

SECTION 6 – FIRE AND EXPLOSION DATA

Flash Point	: Not measured
Flammability Point	: Not measured
Extinguishing Media	: Not easily to explode and flam. If so, use foam, dry powder, and water spray

SECTION 7 – ACCIDENTAL RELEASE MEASURES

Slightly Spill	Wipe with a wet cloth, or sprinkle sand then place it in a special container for disposal or reuse.
Abundant Spill	Avoid spills from entering the water drain and water source.

SECTION 8 – HANDLING AND STORAGE

Cautions	<ol style="list-style-type: none"> 1. Keep container tightly 2. Wash your hand with soap and running water 3. Keep away from children, foodstuffs and beverages
Storage	<ol style="list-style-type: none"> 1. Do not store the packages upside down 2. Avoid direct sunlight and place in room temperature

SECTION 9 – EXPOSURE CONTROL OR PERSONEL PROTECTION

General Protective Measures	Keep away from children, foodstuffs and beverages
Protection Equipment	1. The use of personal protection may vary depends on the condition 2. If necessary, use masker and gloves

SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES

Molecule Weight	: Not measured	Solubility	: Soluble in the water
pH	: 3.6 – 4.4	Color	: light green
Melting Point	: Not measured	Odor	: product specific
Temperature	: Not measured	Flavor	: Not measured

SECTION 11 – STABILITY AND REACTIVITY DATA

Temperature of Stability	: Not measured
Corrosivity and reaction with other components	: No reaction if applied in a normal amount

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity	: This material is not registered in the list of materials that can cause contamination in the sea.
BOD and COD	: Not measured
Toxicity Product Degradation	: In normal condition, degradation of this material will not contaminate environment. Abundant quantity of this product in the water might slightly decrease pH

SECTION 13 – TOXICOLOGY INFORMATION

Toxicity Route	: If Swollen
Animal Toxicity	: Relates to section 3
Human Toxicity	: Not applied

SECTION 14 – DISPOSAL CONSIDERATION

Waste Disposal or Recycling : Place and collect used packaging at the disposal site. Make sure disposal complies with local government requirements or regulations

SECTION 15 – INFORMATION FOR TRANSPORTATION

Land Transport

ADR:

UN Number : 3082
PSN : Environmentally hazardous substance, liquid, n.o.s (spray grade ammonium sulphate)
Class : 9
Packaging group : III
Label : 9 miscellaneous substances and articles/goods

RID:

UN Number : 3082
PSN : Environmentally hazardous substance, liquid, n.o.s (spray grade ammonium sulphate)
Class : 9
Packaging group : III
Label : 9 miscellaneous substances and articles/goods

Sea Transport

IMDG:

UN Number : 3082
PSN : Environmentally hazardous substance, liquid n.o.s (spray grade ammonium sulphate)
Class : 9
Packaging group : III
Label : 9 miscellaneous substances and articles/goods

Air Transport

ICAO/IATA:

UN Number : 3082

PSN : Environmentally hazardous substance, liquid, n.o.s (spray grade ammonium sulphate)

Class : 9

Packaging group : III

Label : 9 miscellaneous substances and articles/goods

SECTION 16 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture : Indonesia Management of Hazardous and Toxic Substances ACT (Present)

Inventories

Hazard symbol : -

Hazard component : Ammonium sulphate (spray grade) with non-ionic surfactant

Warning : Acute Potential Hazards (Risk of irritate to eyes and irritate skin if contain in long exposure)

SECTION 17 – OTHER INFORMATION

Consumers accept all risks related to the usage of this product. The consumer accepts all responsibility to ensure that the product is used in a safe manner in accordance with applicable environmental, health and safety procedures, regulations and policies. PT Pandawa Agri Indonesia is not responsible for improper use and is not responsible for accidents or damage that is directly or indirectly related to the use of this product. All information contained in this sheet was developed from various sources that are accurate and trusted by PT Pandawa Agri Indonesia and compiled based on opinions and facts that existed during the preparation process.