

Material Safety Data Sheet Pest SOLUT-ION



Material Safety Data Sheet (MSDS)

Registration No: None

Revision Date: 04.10.2018

SECTION 1 - INTRODUCTION

Product Name	Pest Solut-ion
Chemical Name	Quercetrin D-glucosamine
Made and Produced By	PT PANDAWA AGRI INDONESIA Ikan Wijinongko street 36, Sobo Banyuwangi, East Java Indonesia Phone: (0333) 429 008 / (021) 31920021 Email: info@pandawaid.com Website: www.pandawaid.com

SECTION 2 - COMPOSITION

Material	CAS number #	Form
Ammonium Hidroxide	1336-21-6	Liquid
Aquades	7732-18-5	Liquid
Quercetrin	117-39-5	Solid
Acetic Acid	64-19-7	Liquid
Nicotine	54-11-5	Liquid
Chitosan	9012-76-4	Solid

Chemical name : Quercetrin D-glucosamine

Material Safety Data Sheet Pest SOLUT-ION

SECTION 3 – TOXICOLOGICAL DATA

Ammonium Hidroksida	: Acute toxicity Ammonia anhidrous (gas): 2000 ppm (male Rat for 4 hours)
Quercetrim	: Oral toxicity LD50: 161 mg/Kg Rat : Oral toxicity LD50: 159 mg/Kg Mice
Acetic acid	: Inhalation LC50: 5620 ppm/1 hour; Oral acute toxicity LD50: 3310 mg/kg Rat; Dermal toxicity LC50:1060 mg/Kg Rabbit
Nicotine	: Oral toxicity LD50: 3340 mg/kg Mice; Dermal toxicity LD50: 140 mg/Kg Rat
Chitosan	: Not applied
2-Sodium amine	: Oral toxicity LD50: >15000 mg/Kg Rat

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

Material Safety Data Sheet Pest SOLUT-ION

SECTION 6 – FIRE AND EXPLOSION DATA

Flash Point	: Not applied
Flammability Point	: Not applied
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 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 foodstuffs and beverages
Protection Equipment	<ol style="list-style-type: none"> 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	: 4 – 5	Color	: Brown
Melting Point	: Not measured	Odor	: Strong
Temperature	: Not measured	Flavor	: Not measured

Material Safety Data Sheet Pest SOLUT-ION

SECTION 11 – STABILITY AND REACTIVITY DATA

Temperature of Stability	: Not measured
Corrosivity and reaction with others 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. Maybe, it is dangerous to cattle if swollen in abundant quantity
BOD and COD	: Not applied

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 (Quercetrin D-Glucosamine)
Class	: 9
Packaging group	: III
Label	: 9 miscellaneous dangerous goods substance

Material Safety Data Sheet Pest SOLUT-ION

RID:

UN Number : 3082
PSN : Environmentally hazardous substance, liquid, n.o.s (Quercetrin
D-Glucosamine)

Class : 9
Packaging group : III
Label : 9 miscellaneous dangerous goods substance

Sea Transport

IMDG:
UN Number : 3082
PSN : Environmentally hazardous substance, liquid, n.o.s (Quercetrin
D-glucosamine)
Class : 9
Packaging group : III
Label : 9 miscellaneous dangerous goods substance

Air Transport

ICAO/IATA:
UN Number : 3082
PSN : Environmentally hazardous substance, liquid, n.o.s (Quercetrin
D-glucosamine)
Class : 9
Packaging group : III
Label : 9 miscellaneous dangerous goods substance

Material Safety Data Sheet Pest SOLUT-ION

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

CAS : -

Hazard component : Quercetrin D-glucosamine

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

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.