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SDS No. IM.1.1.1.B

Section 1 – Product Identification

IDENTITY: *Product Name:*

InjectPro-PM3811-ACCELERATOR Liquid for Component-A (SDS 2 of 3)

for products:

InjectPro-PM3811-SoilStabilizer; PM3811-Flex; PM3811-Fast; + PM3811-UltraSeal

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Recommended use of the chemical and restriction on use:

Refer to the product technical data sheet.
For industrial and professional users.

Section 2 – Hazards Identification

GHS Classification:

Skin irritation, Category 3
Serious eye irritation, Category 2B

H316: Causes mild skin irritation.
H320: Causes eye irritation.

GHS Label element:

Hazard Pictograms



GHS07

Signal Word: Warning

Hazard Statements:

H302: Harmful if swallowed.
H316: Causes mild skin irritation.
H320: Causes eye irritation.

Precautionary Statements:

Prevention:

P102: Keep out of reach of children.
P264: Wash skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/ eye protection/face protection.

Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P313: IF exposed or concerned, get medical advice/attention.
P332 + P313: IF skin irritation occurs, get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.

Storage:

P403 + P232: Store in a well-ventilated place. Protect from moisture.

Disposal:

P501: Dispose of contents/container to an approved waste disposal site.

P502: Refer to manufacturer/supplier for information on recovery/recycling.

Section 3 – Composition / Information on Hazardous Ingredients

Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV	Percent
Triethanolamine	102-71-6		5 mg/m ³	60 - 100
N,N-Diethanolamine	111-42-2		1 mg/m ³	11 - 30

Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 – First Aid Measures

Inhalation: Supply fresh air and consult a physician if breathing becomes difficult or symptoms occur.

Ingestion: Wash out mouth with water and get medical attention. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water immediately. Remove contaminated clothing and shoes. Seek medical attention if symptoms occur. Wash clothing and shoes before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash station should be immediately available.

Section 5 – Fire Fighting Measures

Extinguishing Media: Use water fog or fine spray. Alcohol resistant foam (ATC type). Dry chemical or carbon dioxide fire extinguishers. Do not use direct water stream. May spread fire.

Products of Combustion: Decomposition products may include the following materials:
Nitrogen oxides, carbon monoxide, carbon dioxide.

Fire Fighting Procedures: Caution: container may burst due to pressure increase if in a fire or heated. Evacuate all persons from proximity of the incident if there is a fire. Do not attempt action involving personal risk or without suitable training. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) with a full face-piece and full protective gear.

Section 6 – Accidental Release Measures

Person-related Safety Precautions: Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear personal protective equipment. Remove or eliminate all ignition sources.

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Methods for cleaning-up:	Contain and collect spillage with non-combustible, absorbent materials. I.e. vermiculite, diatomaceous earth, universal binders, sawdust and place in container for disposal.
Waste Disposal Method:	Dispose in accordance with local, state and federal regulations.
Ecological Information:	Do not allow product to reach ground water, bodies of water, or storm water or sewage systems.

Section 7 – Handling and Storage

Handling:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands and face thoroughly after handling. Avoid breathing vapor or mist, do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Keep container closed when not in use. Segregate from acids and acid forming substances. Do not store in direct sunlight. Ensure thorough ventilation of stores and work areas. Suitable materials for containers: carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), glass. May discolor after lengthy storage. Do not store in: Galvanized steel, Copper, Copper alloys, Zinc.
	Storage stability: Storage temperature: 20°C – 40°C (68°F – 104°F). Storage duration: 12 months. May discolor after lengthy storage.

Section 8 – Exposure Controls / Personal Protection

Product	Exposure Limits
Triethanolamine	ACGIH TLV: 5 mg/m ³ 8 hrs
Diethanolamine	ACGIH TLV: 1 mg/m ³ 8 hrs Skin

Respiratory Protection:	For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator (i.e. Organic vapor cartridge with a particulate pre-filter).
Skin Protection:	Use chemically resistant apron or other appropriate impervious clothing to avoid prolonged or repeated skin contact based on task being performed.
Hand Protection:	Chemical-resistant, impervious gloves should be worn whenever this material is handled.
Eye Protection:	Use safety glasses with side-shields (frame goggles).
Ingestion:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Section 9 – Physical and Chemical Properties

Physical state:	Liquid
Color:	Colorless to yellow or blue
Odor:	Ammoniacal
Density:	1.12 – 1.13 g/cm ³
Odor threshold:	Not available
Solubility in water:	Miscible (25°C)
pH-value:	10 - 11
Boiling point:	305°C (581°F)

IDENTITY: **AQUAFIN-PM3811-ACCELERATOR Liquid**

Melting range:	18 - 23°C (65-73°F)
Flash point:	188°C (370°F) closed cup
Flammability:	does not self-ignite
Viscosity, (kinematic):	5.27 cm ² /s (527 cSt at 25°C)
Vapor density (air = 1):	5.3
VOC content:	Not available

Section 10 – Stability and Reactivity

Stability:	This product is stable under normal storage conditions.
Conditions to Avoid:	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid moisture.
Hazardous Decomposition:	May include carbon oxides, nitrogen oxides, nitrous gases.
Incompatibilities:	Oxidizing materials, organic materials, metals, acids, nitrites, and alkalis. Heating above 60°C (140°F) in the presence of aluminum can result in corrosion and generation of flammable hydrogen gas. Avoid unintended contact with: Halogenated hydrocarbons.

Section 11 – Toxicological Information

Potential acute toxicity:

Assessment of acute toxicity: Virtually non-toxic after a single ingestion. Virtually non-toxic after a single skin contact. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a saturated vapor-air mixture represents no acute hazard.

Ingestion: Slightly toxic if swallowed.

Inhalation: No known significant effects or critical hazards.

Eye damage/eye irritation: Irritating to eyes.

Skin corrosion/irritation: Slightly irritating to the skin.

Potential chronic health effects:

Chronic effects: Contains material that may cause target organ damage, based on animal data.

Target organs: Contains material which may cause damage to the following organs: blood, kidneys, liver, testes.

Mutagenicity; Teratogenicity; fertility effects; Developmental effects: No known significant effects or critical hazards.

Section 12 – Ecological Information

Aquatic ecotoxicity

Product/ingredient

Triethanolamine	Material is practically non-toxic to aquatic organisms on an acute basis.
N,N-Diethanolamine	Material is moderately toxic to aquatic organisms on an acute basis.

Biodegradability

Triethanolamine Material is readily biodegradable.
N,N-Diethanolamine Material is readily biodegradable.

Section 13 – Disposal Considerations

Disposal: Must be disposed of in a manner consistent with federal, state and local regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 – Transport Information

USDOT Non-Bulk: Not regulated.
USDOT Bulk: UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethanolamine); Class 9; PGIII; Reportable quantity 100 lbs
IATA/ICAO: Not regulated. Reportable quantity: 100 lbs.
IMDG: Not regulated.

Section 15 – Regulatory Information

TSCA Status: Listed or exempt.
HCS Classification: Irritating materials, target organ effects
SARA 313 Form R Reporting Requirements: N,N-Diethanolamine (CAS No.: 111-42-2) 15% Concentration
SARA 313 Notification: Must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

CERCLA: Hazardous substances:

Component	Concentration	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity (lbs)	Product Reportable Quantity (lbs)
N,N-Diethanolamine	15%	Listed	100	667

Release of more than any reportable quantity to the environment in a 24 hour period requires notification to the National Response Center (800-424-8802 or 202-426-2675).

Section 16 – Other Information

(Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic)

HMIS III rating:
Health: 1* Flammability: 1 Physical hazard: 0

Abbreviations and acronyms:

USDOT: United States Department of Transportation.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (Division of the American Chemical Society).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.

SDS prepared by: Aquafin product safety department.

DISCLAIMER:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. Aquafin shall not be responsible for the use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. User is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. We recommend that user makes tests to determine the suitability of a product for its particular purpose prior to use.

END OF SDS

(January 22, 2019)