

Section 1. Identification of the substance/preparation and of the company

Product Name: SHIELD

Synonyms: None

Product Use: FERTILIZER

Name of Supplier: GroPro Inc.

Manufacturer Information:

- 1) Head office: GroPro Inc
12600 West Frontage Road
Burnsville, Mn 55337
- 2) Factory: Address: 427-1, Gisan-ri, Seongsan-myeon, Goryeong-gun,
Gyeongsanbuk-do, South Korea. 717-812

Section 2. Hazards identification

- > **Explosion:** No cauterization
- > **Eye effects:** Irritating to eyes
- > **Skin effects:** Moderately irritating to skin
- > **Ingestion:** Harmful if swallowed
- > **Inhalation:** May cause light lung damage if swallowed
- > **Carcinogenic effects:** No known significant effects or critical hazards
- > **Mutagenic effects:** No known significant effects or critical hazards
- > **Effects of overexposure:** Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce targeted organ damage.
- > **Chemicals listed as carcinogens or potential carcinogens:** N/A
- > **Environment effects:** No hazard

Section 3. Composition/information on ingredients

Chemical / Component Name	Concentration	CAS Number	EC Number	R Phrases
Potassium Silicate	47.80%	1312-76-1	-	None
Water	52.20%		-	None
TOTAL	100.00%			

Section 4. First aid

- > **Inhalation:** Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
- > **Skin Contact:** Wash thoroughly with soap and water, flush with plenty of water. Take off spoiled clothes. Contact physician if symptoms persist.
- > **Eye Contact:** Rinse thoroughly with plenty of water for at least 10 minutes, making sure to rinse under the eyelids. Contact a physician if symptoms persist.
- > **Ingestion:** Wash the mouth with water, seek medical advice immediately.

Section 5. Fire-fighting measures

- > **Suitable extinguishing media:** Water, water spray, foam carbon dioxide, dry powder, etc.
- > **Extinguishing agents to avoid:** None
- > **Special fire fighting precautions:** Wear respiratory protection to avoid dust and smoke

Section 6. Accidental release measures

- > Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc.)
- > Prevent any contact with hot surfaces
- > Do not approach facing the wind

Section 7. Handling and storage

- > **Handling:** Avoid contact with skin and eyes
- > **Storage:** Keep in dry, cool place (0-35°C)

Section 8. Exposure controls/personal protection

- > **Engineering measures:** No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- > **Eyes:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dusts. Recommended: safety glasses with side-shields.
- > **Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- > **Respiratory:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.
- > **Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Nitrile rubber gloves are recommended.
- > **Hygiene Measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

- > **Physical State:** Liquid
- > **Appearance Color:** Colorless
- > **Odor:** None
- > **Partition coefficient:** Solubility-water freely soluble
- > **PH:** 11-12
- > **Melting point (oC):** N/A
- > **Boiling Point:** N/A
- > **Flash point (oC):** N/A
- > **Auto-ignition temp. (oC):** N/A
- > **Vapor pressure (mm Hg):** N/A

Section 10. Stability and reactivity

- > **Stability:** Stable
- > **Conditions to avoid:** Open flames or other high temperature sources, which might induce thermal decomposition
- > **Hazardous decomposition products:** Not expected
- > **Hazardous Polymerization:** Will not occur

Section 11. Toxicological information

- > Consult the Toxicological Institute of your country.
- > The product is natural and non-toxic.

Section 12. Ecological information

- > **Biodegradability:** Not determined
- > **Precautions:** Prevent contamination of soil, ground, and surface water

Section 13. Disposal considerations

> In accordance with local environmental laws, avoid disposing into drainage systems and into the environment

Section 14. Transport information

Shipping name: **GROPRO – SHIELD**

Not classified as dangerous in the meaning of transport regulations

Section 15. Regulatory information

No.

Section 16. Other information

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