



Material Safety Data Sheet (MSDS): **Grow & Bloom Base B**

1) Identification of Substance/Preparation and Company/Undertaking

Product Name	Grow & Bloom Base A
Address	HS Supplies, LLC 8650 Genesee Ave. Ste. 214-928612 San Diego, CA. 92192 (858) 255-0576
Use	Liquid NPK Fertilizer

2) Hazards Identification

OSHA/GHS Classification	Not Hazardous
Signal Word	None
Hazard Statement	None
Precautionary Statements	None

3) Composition/Information on Ingredients

Trade Name	Grow & Bloom Base B
Product Appearance	Clear liquid

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

Chemical Name (Mixture)	CAS Number
Nitric Acid 38%	7697-37-2
Magnesium Nitrate	10377-60-3

4) Emergency and First Aid Procedures

Eyes	If contacts are present, remove and immediately rinse eyes. Eyelids should be held open for a sufficient period (at least 15 min) of time while washing with lukewarm water. You should help the subject with the rinsing process. Neutralizing liquids should not be used. Immediately consult a physician/ophthalmologist.
Skin	Wash with water and soap immediately.
Ingestion	If the subject is conscious, rinse mouth with water and then drink plenty of water. Vomiting should NOT be induced unless under the supervision of a physician. Immediately consult a physician or seek medical attention. If subject is unconscious, place on their side in the recovery position. Tight clothing (i.e. shirt, tie, belt etc.) should be loosened. Keep at rest.
Inhalation	Remove subject to fresh air. If not breathing, apply artificial respiration.

	Important Symptoms and Effects (Acute and Delayed)
Eyes	Product can cause irreversible damage to eyes. Pain and redness.
Skin	Slight skin irritant - symptoms of redness and yell discoloration.
Ingestion	Irritation of mucous membranes. Stomach ache.
Inhalation	Exposure to vapor concentrations of component dusts higher than the TLV value can be harmful to health. Health effects include coughing, difficulty breathing or loss of consciousness or burning sensation. Effects can be delayed. Prolonged inhalation of aerosol and/or upper airways have become manifest.

5) Fire and Explosion Hazard Data

Fire Fighting Media	Water jet, extinguishing powder or CO2. Larger fires with water spray, foam, or sand. Unsuitable extinguishing media: Power Water Jet.
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Special Fire Fighting Procedures	Self-contained breathing apparatus.
Special Remarks on Fire and Explosion Hazards	Poisonous gases may be produced during heating or in the event of a fire. Nitrogen oxides may be released in the event of a fire.

6) Accidental Release Measures

Precautions	Personal protective equipment should be worn. Ensure sufficient ventilation
Spills	Large quantities of product should not be allowed to reach sewage/surface water/groundwater in a concentrated form. In such an event notify competent authorities.
Cleanup	Soak up spilled product immediately with absorbent material (i.e. sand, dry earth). Recycle when possible. Suitable containers should be used for disposal. Residue should be flushed away with plenty of water.

7) Handling and Storage

Protective Measures	Care and caution should be used when opening and handling package. Ensure adequate ventilation/extraction in the workplace. Formation of aerosols should be avoided.
Storage	Containers should be properly closed after each use. Preferably, material should be kept in it's original packaging. Store in a dark place, free from frost and protected against heat and direct sunlight. Recommended storage temperatures between 10 - 30 degrees C (50-86 degrees F)

8) Exposure Controls/Special Protective Information

Occupational Exposure Limit Values - Magnesium Nitrate	None Available
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Occupational Exposure Limit Values - Nitric Acid	TWA: 2 ppm from ACGIH (TLV) STEL: 4 mg/m3 from ACGIH (TLV) TWO: 2 ppm from OSHA (PEL) TWA: 2 ppm from NIOSH (REL) STEL: 4 ppm from NIOSH (REL)
Engineering Controls	Well ventilated room
Environmental Exposure Controls	Large leaks should be stopped from entering sewage, surface waters and groundwater.

Hygiene Measures	Material should be kept away from food and beverages. Do not eat, drink or smoke while using product.
Eye/Face Protection	Wear tight fitting safety goggles. Eye shower.
Hand Protection	Safety gloves.
Body Protection	Suitable protective work clothing in case of splash.
Respiratory Protection	N/A - normal ventilated room.
Other	

Individual Protection Measures

9) Physical and Chemical Properties

Physical State	Liquid
Color	Clear
Odor	Odorless
Odor Threshold	Not Determined
pH	3
Melting Point	Not Determined
Boiling Point	Not Determined
Flash Point	Greater than 93 Degrees C (199.4 Degrees F)
Evaporation Rate	Not Determined
Flammability	Not Applicable
Lower and Upper Explosive Limits	Not Determined
Vapor Pressure	Not Determined

Vapor Density	Not Determined
Relative Density	1.0999 (water=1)
Solubility	Fully with water
Partition Coefficient: n-octanol/water	Not Determined
Auto-Ignition Temperature	Not Determined
Decomposition temperature	Not Determined
Viscosity	Not Determined

10) Reactivity and Stability Data

Chemical Stability	Product is stable when handled and stored as directed.
Hazardous Reactions	Strong bases or contact with strong reducing agents.
Conditions to Avoid	Sources of ignition (i.e. sparks, open flames) and heat should be avoided. Evaporation in a non-ventilated environment is advised against. Protect product from heat, direct sunlight and frost.
Incompatible Materials	Mildly corrosive for metals.
Hazardous Decomposition Products	When stored under normal conditions no hazardous decomposition products are formed. In the event of fire or heating, irritating or toxic vapors (nitrogen oxides) may be released.

11) Toxicological Information

Routes of Entry	Skin
Health Effects (delayed, immediate, chronic)	Burning sensation, coughing, difficulty breathing or loss of consciousness. Effects can be delayed. Prolonged periods of inhalation of aerosol/mist can lead to pneumonia and/or lung edema, but only after initial corrosive effects on the mucous membranes of the eyes and/or upper airways have manifested.
Symptoms	1) Skin - Irritates the skin and mucous membranes. 2) Serious Eye Damage/Irritation - Irritant and corrosive effect. 3) Respiratory/Skin Sensitization - No effects known.

National Toxicology Program on Carcinogens	Not Listed
Agency for Research on Cancer	Not Listed

Route	Nitric Acid 7697-37-2	Magnesium Nitrate 10377-60-3
Oral (LD50)	430 mg/kg (human)	>5000 mg/kg (rat) (OECD 423)
Inhalation (LC50)	> 80 mg/l (rat) (OECD 403)	-
Dermal (LD50)		>5000 mg/kg (rat) (OECD 402)

LD/LC50 Values Relevant for Classification

12) Ecological Information

Material is partially inorganic and presumed to be partially biodegradable over the long-term. Bioaccumulation in organisms is not expected. No further relevant information is available on substances mobility in soil. Contains substances (Nitrates) that contribute to eutrophication.

13) Consideration Regarding Disposal

Waste material should be brought to a supervised incineration plant in compliance with local regulations.

14) Information Regarding Transport

Not classified as a dangerous good.

15) Regulatory Information: N/A

16) Other Information:

Notice:

While this MSDS is based on technical data judged to be reliable, HS Supplies, LLC assumes no responsibility for the accuracy or completeness of the information contained herein. All chemicals may pose unknown hazards and should be used with caution. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

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