



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

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	Eye Irritant 2A; H319 Acute Toxicity 4 (Ingestion); H302
Signal Word	Warning
Hazard Statement	1) Product is harmful if swallowed. (H302) 2) Product causes serious eye irritation (H319)
Precautionary Statements	1) Keep product out of reach of children (P102) 2) Do not eat, drink or smoke when using this product (P270) 3) Wear eye protection (P280) 4) In the event that product is swallowed, call poison control center or physician if you feel unwell (P305+P312) 5) If product gets IN EYES rinse eyes with water for several minutes. If contacts are present, remove them if able and continue rinsing (P305 + P351 + P338) 6) If eye irritation is persistent, seek medical attention. (P337 + P313)

3) Composition/Information on Ingredients

Chemical Name (Mixture)	CAS Number
Calcium Nitrate	10124-37-5
Potassium Nitrate	7757-79-1
Magnesium Nitrate	10377-60-3

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

Trade Name	Grow & Bloom Base A
Product Appearance	Liquid, light brown in color.

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.
Skin	Contaminated clothing should be removed. Wash contaminated area with water and soap.
Ingestion	If the subject is conscious, rinse mouth with water and then drink plenty of water. Vomiting should NOT be induced. If subject continues to feel unwell 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 to fresh air and keep in a comfortable position for breathing.

	Important Symptoms and Effects (Acute and Delayed)
Eyes	Redness and Pain. Contact may cause irreversible eye damage.
Skin	Redness and Pain.
Ingestion	Feeling weak, abdominal cramps and nausea, and blue skin. Calcium nitrate present in solution may cause bloom damage after ingesting.

Inhalation	Exposure to vapor concentrations of component dusts can be harmful to health. Sore throat, cough, shortness of breath and dizziness. Effects may be delayed.
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5) Fire and Explosion Hazard Data

Fire Fighting Media	Water jet, extinguishing powder or CO2. Larger fires with water spray, foam, or sand.
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	Use caution and care when opening package. Suitable protective clothing should be worn and proper ventilation is recommended. Eating, smoking or drinking should be avoided during use. NO specific information for fire and explosion protection.
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	None Available
Engineering Controls	Well ventilated room
Environmental Exposure Controls	Large leaks should be stopped from entering sewage, surface waters and groundwater due to the presence of calcium nitrate, which may lead to eutrophication.

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	Light Brown
Odor	Slight odor
Odor Threshold	N/A
pH	3.5
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	1.170 (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 acids and 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	Reducing agents, strong acids and bases, metal powders, combustible materials, calcium sulfide, sodium acetate, trichloroethylene, dimethylformamide.
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)	Cough, shortness of breath, dizziness, sore throat, abdominal cramp and nausea, blue skin, feeling weak. Calcium nitrate present may, after ingestion, cause blood damage (methemoglobinemia).
Symptoms	1) Skin - No information available 2) Serious Eye Damage/Irritation - May cause irreversible damage to eyes, redness and pain. 3) Respiratory/Skin Sensitization - No effects known.
National Toxicology Program on Carcinogens	Not Listed

Agency for Research on Cancer	Not Listed
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Route	Calcium Nitrate 10124-37-5	Potassium Nitrate 7757-79-1	Magnesium Nitrate 10377-60-3
Oral (LD50)	1000 mg/kg (rat) (OECD 423)	> 2000 mg/kg (rat) (OECD 425) 3750 mg/kg (rat) 1901 mg/kg (rabbit)	>5000 mg/kg (rat) (OECD 423)
Inhalation (LC50)	-	0.527 mg/l (rat) (OECD 403, inhalable dust)	-
Dermal (LD50)	> 2000 mg/kg (rat) (OECD 402)	>5000 mg/kg (rat) (OECD 402)	>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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