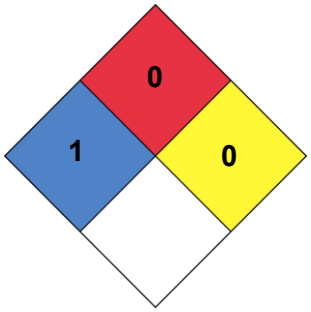
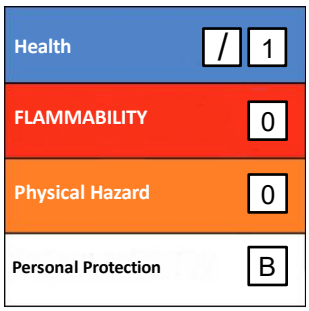
NFPA



SAFETY DATA SHEET
OM Liquid HA 16

HMIS



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product Name	OM Liquid HA 16 **Product ID #** 754
Manufacturer's Name	Huma
Address:	1331 W Houston Ave. Gilbert, AZ, US, 85233
Emergency Phone	Chemtrec: (In the USA) 800-424-9300 (International) 703-527-3887
Information Phone #	480-961-1220
Product Use	Used as a part of a plant nutrition program.

SECTION 2) HAZARDS IDENTIFICATION

Classification Not classified as a hazardous substance or mixture in accordance to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

SECTION 3) COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% By Weight
68514-28-3	HUMIC ACIDS, POTASSIUM SALTS	15% – 25%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

SECTION 4) FIRST-AID MEASURES

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.

Eye Contact If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 5 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

Skin Contact Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

Ingestion Rinse mouth. If you feel unwell/If concerned: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed No data available.

Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Treatment should be supportive and based on the judgement of the physician in response to the reaction of the patient.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Small Fire : Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Large Fire: Dry chemical, CO_2, alcohol resistant foam or water spray Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Unsuitable Extinguishing Media Do not use water jet.

Specific Hazards in Case of Fire Dense smoke may be generated while burning.

Fire-Fighting Procedures Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray is recommended to cool or protect exposed materials or structures. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Isolate hazard area and keep unauthorized personnel away. Do not touch or walk through spilled material. Ventilate closed spaces before entering.
Recommended Equipment	See section 8 for specifics on protective personal equipment (PPE).
Personal Precautions	Avoid breathing vapor or mist. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.
Environmental Precautions	Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.
Methods and Materials for Containment and Cleaning Up	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 7) HANDLING AND STORAGE

General	Avoid breathing vapor or mist. Avoid contact with skin, eye or clothing. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. Use good personal hygiene practices. Wash hands after use.
Ventilation Requirements	Report ventilation failures immediately. Use only with adequate ventilation to control air contaminants to their exposure limits.
Storage Room Requirements	Store in cool, dry, well-ventilated areas away from heat, direct sunlight and strong oxidizers. Keep container(s) tightly closed and properly labeled. Containers that have been opened must be carefully resealed to prevent leakage.

SECTION 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection	Wear eye protection with side shields or goggles.
Skin Protection	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber.
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 should be followed. Check with respiratory protective equipment suppliers.
Appropriate Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown to black	**Bulk Density** (pounds/ft^3)**:**	N/A
Physical State:	Liquid	**Vapor Pressure:**	No data available
Odor:	none	**Vapor Density:**	No data available
Odor Threshold:	No data available	**Evaporation Rate:**	No data available
Molecular Formula:	Mixture	**VOC Content:**	No data available
Boiling Point:	Greater than 100° C. (212° F.)	**Water Solubility:**	Complete
Freezing/Melting Point:	Less than 0° C. (32° F.)	**pH** (as is)**:**	8.0 – 9.0
Specific Gravity:	1.08	**Density** (pounds/gallon)**:**	9.01

SECTION 10) STABILITY AND REACTIVITY

Reactivity No data available.

Chemical Stability Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions/Polymerization No data available.

Conditions to Avoid Avoid heat, sparks, flame, high temperature and contact with incompatible materials.

Incompatible Materials Strong bases, acids, and oxidizing agents

Hazardous Decomposition Products Oxides of carbon

SECTION 11) TOXICOLOGICAL INFORMATION

Acute Toxicity The Acute Toxicity Estimate (ATE) for an oral exposure to this mixture is >5000 mg/kg body weight
The Acute Toxicity Estimate (ATE) for a dermal exposure to this mixture is >5000 mg/kg body weight
The Acute Toxicity Estimate (ATE) for an inhalation (vapour) exposure to this mixture is >20 mg/l

Aspiration Hazard Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization Based on available data, the classification criteria are not met.

Reproductive Toxicity Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity – Repeated Exposure Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity – Single Exposure Based on available data, the classification criteria are not met.

Likely Routes of Exposure Inhalation, Ingestion, Skin contact, Eye contact

Chronic Exposure Based on available data, the classification criteria are not met.

Potential Health Effects - Miscellaneous Based on available data, the classification criteria are not met.

SECTION 12) ECOLOGICAL INFORMATION

Ecotoxicity	Based on available data, the classification criteria are not met.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Other Adverse Effects	No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Waste Disposal	It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws.

SECTION 14) TRANSPORT INFORMATION

	U.S. DOT Info	IMDG Info	IATA Info
UN Number	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	N/A	N/A	N/A
Transport Hazard Class	Not Applicable	Not Applicable	Not Applicable
Packing Group	Not Applicable	Not Applicable	Not Applicable
Hazardous Substance (RQ)	Not Applicable	Not Applicable	Not Applicable
Environmental Hazards	No Data Available	No Data Available	No Data Available
Special Precautions for User	No Data Available	No Data Available	No Data Available
Transport in bulk according to Annex II of MARPOL and the IBC code	No Data Available	No Data Available	No Data Available

SECTION 15) REGULATORY INFORMATION

CAS	Chemical Name	% By Weight	Regulation List
68514-28-3	HUMIC ACIDS, POTASSIUM SALTS	15% – 25%	SARA312, TSCA - Toxic Substances Control Act (TSCA)

Product does not contain any chemicals listed under California Proposition 65

SECTION 16) OTHER INFORMATION

Glossary

ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL- Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

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