



**VERDEGAAL
BROTHERS,
INC.®**

13555 S. 11th Ave. / Hanford, CA 93230
(559) 582-9205

MATERIAL SAFETY DATA SHEET

10-0-0-49



I PRODUCT IDENTIFICATION

MANUFACTURER'S NAME Verdegaal Bros., Inc.	TELEPHONE NO. (559) 582-9205 / 582-8990
ADDRESS 13555 S. 11th Ave., Hanford, California 93230	
CHEMICAL NAME Urea - Sulfuric Acid - Water	
SYNONYMS AND TRADE NAMES 10-0-0-49, 10-0-0-16(S), 10/49	
CHEMICAL FAMILY Molecular Addition Compound - Organic Salt Solution	
SHIPPING NAME Urea Sulfuric Acid Fertilizer	
DOT INFORMATION When shipped by highway, this material may be shipped as non-hazardous material per 49 CFR 173.154 (d)	
PRODUCT INFORMATION Fertilizer Solution, Monocarbamide Dihydrogen Sulfate, CAS # 21351-39-3	

II WARNING STATEMENTS

DANGER
MAY CAUSE SEVERE EYE BURN
PROLONGED CONTACT MAY CAUSE SEVERE SKIN BURNS
HARMFUL OR FATAL IF SWALLOWED
DO NOT TASTE OR SWALLOW
DO NOT GET IN EYES, ON SKIN OR ON CLOTHING
DO NOT BREATHE MIST
DO NOT HEAT ABOVE 230°F.
USE WITH ADEQUATE VENTILATION. KEEP SYSTEM OR CONTAINER CLOSED
WASH THOROUGHLY AFTER HANDLING
WASH APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Urea CAS # 57-13-6	22	Not established
Sulfuric Acid CAS #7664-93-9	49	Corrosive
Water CAS #7732-18-5	29	Not established

IV PHYSICAL DATA

BOILING POINT, 760 MM HG	230°-300° F	MELTING POINT
SPECIFIC GRAVITY (H ₂ O=1)	1.45 at 68°F or 12.1 lbs / gal	VAPOR PRESSURE
VAPOR DENSITY (AIR=1)	Heavier than air	SOLUBILITY IN H ₂ O 100%
% VOLATILES BY VOL		EVAPORATION RATE Slower than ether
APPEARANCE AND ODOR	Clear odorless liquid	

pH is less than 1
Vapor density is heavier than air
Weight per gallon is 12.1 pounds
Because of the sulfuric acid content, this product should be treated as an acid material.