# **SAFETY DATA SHEET**



### 1. Identification

Product identifier INTELLIPHOS HUMINO 16-8-3

Other means of identification None.

Recommended use Ag Product - Plant Nutrition

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name**Wilbur-Ellis Company LLC **Address**Wilbur-Ellis Company LLC

16300 Christensen Rd. Ste 135

Tukwila, WA 98188

United States

Telephone Branded Products

Information

E-mail SDS@wilburellis.com

Emergency phone number Chemtrec - Domestic (800) 424-9300

Chemtrec - International +1 703-741-5970

Manufactured For: Not available.

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSkin corrosion/irritationCategory 1

Serious eye damage/eye irritation Category 1

(800) 500-1698

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. Causes serious eye damage.

**Precautionary statement** 

Prevention Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Urea		57-13-6	30 - < 40	

Material name: INTELLIPHOS HUMINO 16-8-3
4814 Version #: 02 Revision date: 07-08-2024 Issue date: 10-15-2018

Chemical name	Common name and synonyms	CAS number	%
Sulfuric Acid		7664-93-9	10 - < 20
Phosphoric Acid		7664-38-2	5 - < 10
Manganese Sulfate Monohydrate		7785-87-7	< 0.2
Zinc Sulphate (Anhydrous)		7733-02-0	< 0.2
Glycerin		56-81-5	< 0.1
Other components below reportable	levels		40 - < 50

Composition comments

Occupational Exposure Limits for impurities are listed in Section 8.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Foam. Powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk, Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Material name: INTELLIPHOS HUMINO 16-8-3

SDS US 4814 Version #: 02 Revision date: 07-08-2024 Issue date: 10-15-2018

## 7. Handling and storage

**Precautions for safe handling** Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate

ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene

practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Type	Contaminants (29 CFR 1910.1 Value	Form
Glycerin (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Manganese Sulfate Monohydrate (CAS 7785-87-7)	Ceiling	5 mg/m3	
Phosphoric Acid (CAS 7664-38-2)	PEL	1 mg/m3	
Sulfuric Acid (CAS 7664-93-9)	PEL	1 mg/m3	
US. OSHA Table Z-3 Permissible		-	
Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value Components	es (TLV) Type	Value	Form
Manganese Sulfate Monohydrate (CAS 7785-87-7)	TWA	0.1 mg/m3	Inhalable fraction.
,		0.02 mg/m3	Respirable fraction.
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3	
,	TWA	1 mg/m3	
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
NIOSH. Immediately Dangerous t	o Life or Health (IDLH) Values,	as amended	
Components	Туре	Value	
Manganese Sulfate Monohydrate (CAS 7785-87-7)	IDLH	500 mg/m3	
Phosphoric Acid (CAS 7664-38-2)	IDLH	1000 mg/m3	
Sulfuric Acid (CAS 7664-93-9)	IDLH	15 mg/m3	
US. NIOSH: Pocket Guide to Che	nical Hazards Recommended	Exposure Limits (REL)	
Components	Туре	Value	Form
Manganese Sulfate Monohydrate (CAS 7785-87-7)	STEL	3 mg/m3	Fume.
•			

Material name: INTELLIPHOS HUMINO 16-8-3

SDS US

4814 Version #: 02 Revision date: 07-08-2024 Issue date: 10-15-2018

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)				
Туре	Value	Form		
STEL	3 mg/m3			
TWA	1 mg/m3			
TWA	1 mg/m3			
tal Exposure Level (WEEL) G	Guide			
Туре	Value	Form		
TWA	10 mg/m3	Total particulate.		
	Type STEL TWA TWA TWA  Ital Exposure Level (WEEL) G	Type         Value           STEL         3 mg/m3           TWA         1 mg/m3           TWA         1 mg/m3           Ital Exposure Level (WEEL) Guide         Value		

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### 9. Physical and chemical properties

Appearance Black liquid.
Physical state Liquid.
Form Liquid.
Color Black.

Odor Not available.
Odor threshold Not available.

**pH** <1

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

**Decomposition temperature**Not available. **Viscosity**Not available.

Other information

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

Pounds per gallon 11.05 typical

Specific gravity 1.32 typical

## 10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Contact with incompatible materials. Do not mix with other chemicals.

Incompatible materials Bases. Reducing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

#### Information on toxicological effects

Acute toxicity Not known.

Product	Species	Test Results
---------	---------	--------------

**INTELLIPHOS HUMINO 16-8-3** 

Acute
Dermal
Liquid

LD50 Rabbit > 2000 mg/kg, 24 hours

**Oral** Liquid

LD50 Rat > 5000 mg/kg

Components Species Test Results

Glycerin (CAS 56-81-5)

Acute Oral

LD50 Rat 27200 mg/kg

Manganese Sulfate Monohydrate (CAS 7785-87-7)

Acute Oral

LD50 Rat 2150 mg/kg

Phosphoric Acid (CAS 7664-38-2)

Acute Inhalation

LC50 Guinea pig, Mouse, Rabbit, Rat 1689 mg/m3, 1 Hours

Material name: INTELLIPHOS HUMINO 16-8-3

4814 Version #: 02 Revision date: 07-08-2024 Issue date: 10-15-2018

Components **Species Test Results** 

Sulfuric Acid (CAS 7664-93-9)

**Acute** 

Oral

LD50 Rat 2140 mg/kg

Urea (CAS 57-13-6)

**Acute** Oral

LD50 Rat 15000 mg/kg

Zinc Sulphate (Anhydrous) (CAS 7733-02-0)

Acute **Dermal** 

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat 1710 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible. Skin sensitization Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Carcinogenicity Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Sulfuric Acid (CAS 7664-93-9) Known To Be Human Carcinogen.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.

single exposure

Specific target organ toxicity repeated exposure

Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon **Ecotoxicity** 

exposure to aquatic organisms and aquatic systems.

No data is available on the degradability of any ingredients in the mixture. Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Glycerin -1.76 Sulfuric Acid -2.2 -2.11 Urea

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Material name: INTELLIPHOS HUMINO 16-8-3

### 13. Disposal considerations

**Disposal instructions** Dispose of this material and its container to hazardous or special waste collection point. Incinerate

the material under controlled conditions in an approved incinerator. Do not allow this material to

drain into sewers/water supplies. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH ≤2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

UN3264 **UN** number

Corrosive liquid, acidic, inorganic, n.o.s. (16-8-3 4S Acid Fertilizer RQ = 534 Gallons) (Zinc **UN proper shipping name** 

Sulphate (Anhydrous), Copper Sulfate Pentahydrate)

Transport hazard class(es)

8 **Class Subsidiary hazard** 8 Label(s) Packing group Ш **Environmental hazards** 

> Marine pollutant No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

386, B2, IB2, T11, TP2, TP27 **Special provisions** 

154 Packaging exceptions 202 Packaging non bulk Packaging bulk 242

IATA

UN3264 **UN** number

**UN proper shipping name** Transport hazard class(es) Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acid)

Class 8 Subsidiary hazard П Packing group **Environmental hazards** No. **ERG Code** 8L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

UN3264 **UN** number

**UN** proper shipping name Transport hazard class(es) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric Acid)

Class 8 **Subsidiary hazard** Ш Packing group **Environmental hazards** 

Marine pollutant No. F-A, S-B **EmS** 

Not established.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code



#### IATA; IMDG



### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempted from the U.S. EPA TSCA Inventory List.

**Toxic Substances Control Act (TSCA)** 

All components of the mixture on the TSCA 8(b) inventory are designated "active".

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Manganese Sulfate Monohydrate (CAS 7785-87-7) Listed. Phosphoric Acid (CAS 7664-38-2) Listed. Sulfuric Acid (CAS 7664-93-9) Listed. Zinc Sulphate (Anhydrous) (CAS 7733-02-0) Listed.

### SARA 304 Emergency release notification

Sulfuric acid (aerosol forms only) (CAS 7664-93-9) 1000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)

Sulfuric Acid 7664-93-9 1000 1000 Yes

SARA 311/312 Hazardous

chemical

Skin corrosion or irritation

Serious eye damage or eye irritation categories

SARA 313 (TRI reporting)

Classified hazard

Chemical name	CAS number	% by wt.	
Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)	7664-93-9	10 - < 20	

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese Sulfate Monohydrate (CAS 7785-87-7)

Material name: INTELLIPHOS HUMINO 16-8-3

SDS US

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric Acid (CAS 7664-93-9)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number** 

Sulfuric Acid (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Sulfuric Acid (CAS 7664-93-9) 20 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Sulfuric Acid (CAS 7664-93-9) 6552

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerin (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

Phosphoric Acid (CAS 7664-38-2) High priority

#### **US** state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Phosphoric Acid (CAS 7664-38-2) Sulfuric Acid (CAS 7664-93-9)

#### **California Proposition 65**



WARNING: This product can expose you to cadmium, which is known to the State of California to cause

cancer and birth defects or other reproductive harm. For more information go

to www.P65Warnings.ca.gov.

Cadmium (CAS 7440-43-9)

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Sulfuric Acid (CAS 7664-93-9) Listed: March 14, 2003

### 16. Other information, including date of preparation or last revision

Issue date 10-15-2018 07-08-2024 **Revision date** 

Version # 02

Health: 3 NFPA ratings

Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and the manufacturer disclaims all liability for reliance thereon. The user should

satisfy himself that he has all current data relevant to his particular use.

SDS US 4814 Version #: 02 Revision date: 07-08-2024 Issue date: 10-15-2018