# SAFETY DATA SHEET

#### 1. Identification

Product identifier Pro 20-20-20

Other means of identification

Product code 31008

Recommended use Agricultural /horticulure use - NPK fertilizer with micronutrients - refer to product label

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Integrated Agribusiness Professionals

Address 7108 N Fresno St., Suite 150

Fresno, CA 93720 United States

Telephone 1-559-440-1980
Website www.iapros.com
E-mail fertilizer@iapros.com
Contact person Fertilizer Department

**Emergency phone number** Not available.

CHEMTREC (24 HOURS):

US, Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-800-424-9300 International Maritime +1 (703)-527-3887

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if swallowed. Causes serious eye irritation.

**Precautionary statement** 

**Prevention** Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear

eye/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse

mouth. If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** 59.41% of the mixture consists of component(s) of unknown acute oral toxicity.

## 3. Composition/information on ingredients

**Mixtures** 

Material name: Pro 20-20-20 SDS US

709 Version #: 02 Revision date: 07-02-2015 Issue date: 07-02-2015

Chemical name	Common name and synonyms	CAS number	%
Potassium Nitrate		7757-79-1	40.4891902161
Urea		57-13-6	23.6395272094
Manganese EDTA, disodium salt		15375-84-5	0.3859122817
EDTA, Disodium Copper(II) Salt		14025-15-1	0.3571128577
Sodium tetraborate pentahydrate		12179-04-3	0.099998
Sodium Molybdate, Dihydrate		10102-40-6	0.00099998
Other components below reportable leve	ls		35.0272594546

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a Inhalation

physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Immediately flush eves with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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

Ingestion

Get medical advice/attention if you feel unwell. Get medical attention if symptoms occur. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye

Most important symptoms/effects, acute and delayed

irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

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

protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

**General information** 

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Specific methods

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards 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. Keep out of low areas. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. 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 Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Material name: Pro 20-20-20 SDS US

## 7. Handling and storage

Precautions for safe handling Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good industrial hygiene

practices. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value			
Manganese EDTA, disodium salt (CAS 15375-84-5)	Ceiling	5 mg/m3			
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	PEL	5 mg/m3			
<b>US. ACGIH Threshold Limit Values</b>					
Components	Туре	Value	Form		
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	TWA	0.5 mg/m3	Respirable fraction.		
Sodium tetraborate pentahydrate (CAS 12179-04-3)	STEL	6 mg/m3	Inhalable fraction.		
	TWA	2 mg/m3	Inhalable fraction.		
US. NIOSH: Pocket Guide to Chemical Hazards					
Components	Туре	Value	Form		
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	TWA	1 mg/m3	Dust and mist.		
Manganese EDTA, disodium salt (CAS 15375-84-5)	STEL	3 mg/m3	Fume.		
	TWA	1 mg/m3	Fume.		
Sodium tetraborate pentahydrate (CAS 12179-04-3)	TWA	1 mg/m3			
US. AIHA Workplace Environmental Exposure Level (WEEL) Guides					
Components	Туре	Value	Form		

### **Biological limit values**

Urea (CAS 57-13-6)

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

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit

10 mg/m3

Total particulate.

(OEL), suitable respiratory protection must be worn. Provide eyewash station.

# Individual protection measures, such as personal protective equipment

Eye/face protection Face shield is recommended. Wear safety glasses with side shields (or goggles). Use tight fitting

goggles if dust is generated.

**TWA** 

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits. Respiratory protection not required.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Material name: Pro 20-20-20 SDS US General hygiene considerations

Keep away from food and drink. 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 Powder.
Physical state Solid.
Form Powder.
Color Light blue
Odor None.

Odor threshold

pH

Not available.

Salt-Out / Crystallization Temp

Not available.

Melting point/freezing point

Initial boiling point and boiling

Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) soluble

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

**Ingestion** Harmful if swallowed.

**Inhalation** Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation. Dust in the eyes will cause irritation.

Material name: Pro 20-20-20

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye

irritation.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed. Not known.

Product Species Test Results

Pro 20-20-20 (CAS Mixture)

Acute Inhalation

LD50 Rat 2000.001 mg/l estimated

Components Species Test Results

Potassium Nitrate (CAS 7757-79-1)

Acute Oral

LD50 Rabbit 1166 mg/kg

Sodium tetraborate pentahydrate (CAS 12179-04-3)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LD50 Rat > 2 mg/l

Oral

LD50 Rat 2660 mg/kg

Urea (CAS 57-13-6)

Acute

Oral

LD50 Rat 8471 mg/kg

Sheep 28500 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation. Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

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

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Material name: Pro 20-20-20 SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Product Species Test Results

Pro 20-20-20 (CAS Mixture)

**Aquatic** 

Acute

Fish LC50 Fish 25913.4492 mg/l, 96 hr estimated

Components Species Test Results

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) 838 mg/l, 96 hours

Potassium Nitrate (CAS 7757-79-1)

**Aquatic** 

Acute

Fish LC50 Fish 1378 - 3000 mg/l

Sodium Molybdate, Dihydrate (CAS 10102-40-6)

**Aquatic** 

Crustacea EC50 Tubificid worm (Tubifex tubifex) 42.48 - 65.64 mg/l, 48 hours

Fish LC50 Striped bass (Morone saxatilis) > 79.8 mg/l, 96 hours

Sodium tetraborate pentahydrate (CAS 12179-04-3)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 104 mg/l, 96 hours

Urea (CAS 57-13-6)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 3910 mg/l, 48 hours
Fish LC50 Carp (Leuciscus idus melanotus) > 10000 mg/l, 48 hours

Guppy (Poecilia reticulata) 16200 - 18300 mg/l, 96 hours

Harlequinfish, red rasbora (Rasbora 12000 mg/l, 96 hours

heteromorpha)

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

Urea -2.11

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.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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

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

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

emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

Material name: Pro 20-20-20 SDS US

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

# 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

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

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Listed. Manganese EDTA, disodium salt (CAS 15375-84-5) Listed.

### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

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

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

### SARA 313 (TRI reporting)

 Chemical name	CAS number	% by wt.
 Potassium Nitrate	7757-79-1	40.4891902161
Monoammonium Phosphate (MAP)	7722-76-1	29.5494090118

### Other federal regulations

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

Manganese EDTA, disodium salt (CAS 15375-84-5)

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

### US state regulations

#### **US. Massachusetts RTK - Substance List**

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

# US. New Jersey Worker and Community Right-to-Know Act

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

### US. Pennsylvania Worker and Community Right-to-Know Law

Potassium Nitrate (CAS 7757-79-1)

Sodium tetraborate pentahydrate (CAS 12179-04-3)

#### **US. Rhode Island RTK**

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

Material name: Pro 20-20-20 SDS US

Potassium Nitrate (CAS 7757-79-1)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### International Inventories

Country(s) or region

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

(PICCS)

Inventory name

 Issue date
 07-02-2015

 Revision date
 07-02-2015

Version # 02

**Disclaimer** Brandt Consolidated, Inc. cannot anticipate all conditions under which this information and its

product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the

product, and to assume liability for loss, injury, damage or expense due to improper use. While the information contained herein are presented in good faith and believed to be accurate, it is provided

for your guidance only. Because many factors may affect processing or application, we

recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information Product and Company Identification: Alternate Trade Names

Material name: Pro 20-20-20 SDS US

On inventory (yes/no)\*

No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).