

# SAFETY DATA SHEET

1. Product and Company Identification

IPP 20:1 Nutrient Blend Product identifier

Other means of identification Not available

Recommended use Feed

Recommended restrictions None known.

Irving Blending & Packaging Manufacturer information

PO Box 1169

Saint John, NB E2L 4E6 CA Phone: 1.800.574.5823

Emergency Phone: 1.506.648.3060

Supplier See above.

2. Hazards Identification

**Physical hazards** Corrosive to metals Category 1 Skin corrosion/irritation Category 1B Health hazards

Category 1 Serious eye damage/eye irritation

**Environmental hazards** WHMIS 2015 defined hazards

Not classified. Not classified

Label elements



Signal word Danger

Hazard statement May be corrosive to metals.

Causes severe skin burns and eye damage.

**Precautionary statement** 

Prevention Keep only in original packaging.

Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response Absorb spillage to prevent material-damage.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

Store locked up. Store in a corrosion resistant container with a resistant inner liner. Storage

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

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/Information on Ingredients

# **Mixture**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	45
Phosphoric acid		7664-38-2	3

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	4. First Aid Measures
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Specific treatment (see information on this label). Immediately call a POISON CENTER/doctor.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
Most important symptoms/effects, acute and delayed	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. Keep victim under observation. Symptoms may be delayed. Treat patient symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.
	5. Fire Fighting Measures
Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Use water with care - water applied directly will cause evolution of heat and splattering.
Specific hazards arising from the chemical	Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self- contained breathing apparatus.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Ammonia.
	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 breathe mist or vapor. 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	Prevent entry into waterways, sewer, basements or confined areas.
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. 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	Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.
	7. Handling and Storage
Precautions for safe handling	Use only with adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. When using do not eat or drink. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed.

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# Conditions for safe storage, including any incompatibilities

Eye/face protection

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, open flames or other sources of ignition. Store in a tightly closed container in a cool, dry, well ventilated and dark place away from incompatible materials. Keep out of reach of children.

# 8. Exposure Controls/Personal Protection

Components	Occupational Health & Safety Code, Sche Type	edule 1, Table 2) Value	
Phosphoric acid (CAS	STEL	3 mg/m3	
7664-38-2)	TWA	1 mg/m3	
Canada British Columbi	a OELs. (Occupational Exposure Limits	· ·	acupational Haalth and
Safety Regulation 296/97		Tor Chemical Substances, O	ccupational nealth and
Components	Туре	Value	
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
	(Reg. 217/2006, The Workplace Safety A	and Health Act)	
Components	Туре	Value	
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
•	Control of Exposure to Biological or Che	• '	
Components	Туре	Value	
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
Canada. Quebec OELs. ( Components	Ministry of Labor - Regulation Respectin Type	ng the Quality of the Work Er Value	nvironment)
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
,	TWA	1 mg/m3	
US. OSHA Table Z-1 Limi Components	its for Air Contaminants (29 CFR 1910.10 Type	000) Value	
Phosphoric acid (CAS 7664-38-2)	PEL	1 mg/m3	
US. ACGIH Threshold Lir	nit Values		
US. ACGIN THIESHOID LII	Туре	Value	
		0 / 0	
Components Phosphoric acid (CAS	STEL	3 mg/m3	
Components Phosphoric acid (CAS	STEL TWA	3 mg/m3 1 mg/m3	
Components Phosphoric acid (CAS 7664-38-2)	TWA		
Components Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guide	TWA		
Components Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guid Components Phosphoric acid (CAS	TWA e to Chemical Hazards	1 mg/m3	
Components Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guid Components Phosphoric acid (CAS	TWA e to Chemical Hazards Type	1 mg/m3 <b>Value</b>	
Components Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guid Components Phosphoric acid (CAS 7664-38-2)  US. AIHA Workplace Env	TWA e to Chemical Hazards Type STEL	1 mg/m3  Value  3 mg/m3  1 mg/m3	Form
Components  Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guid Components  Phosphoric acid (CAS 7664-38-2)  US. AIHA Workplace Env Components	TWA e to Chemical Hazards Type STEL TWA rironmental Exposure Level (WEEL) Guid	1 mg/m3  Value 3 mg/m3 1 mg/m3 des	Form Total particulate.
Components Phosphoric acid (CAS 7664-38-2)  US. NIOSH: Pocket Guid Components Phosphoric acid (CAS 7664-38-2)	TWA e to Chemical Hazards Type STEL TWA rironmental Exposure Level (WEEL) Guid	1 mg/m3  Value 3 mg/m3 1 mg/m3  des  Value 10 mg/m3	

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Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

Other Wear appropriate chemical resistant clothing. As required by employer code.

**Respiratory protection** Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not applicable.

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. When using do not eat or drink.

# 9. Physical and Chemical Properties

AppearanceLiquidPhysical stateLiquid.FormLiquid.ColorWhite

Odor Slight ammonia
Odor threshold Not available.

pH 2.5 - 2.9

Melting point/freezing point Not available.

Initial boiling point and boiling range.

range

Pour pointNot available.Specific gravity1.13 - 1.17Partition coefficientNot available.

(n-octanol/water)

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

10/\

(%)

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available. Vapor pressure Not available. Vapor density Not available. Relative density Not available. Solubility(ies) Not available. Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

# 10. Stability and Reactivity

**Reactivity**This product may react with reducing agents. This product may react with strong oxidizing agents.

May be corrosive to metals. Contact with most metals produces highly flammable hydrogen gas.

May react with strong bases or oxidizing agents.

This product may also react with: azo-compounds, halogenated compounds, sulphides and

Peroxide.

Not available.

Not available.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Stable under recommended storage conditions.

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Conditions to avoid Do not mix with other chemicals. Heat, open flames, static discharge, sparks and other ignition

sources. Do not mix with other materials or with water.

Incompatible materials Organic materials. Alkaline materials. Halogenated compounds. Metals. Oxidizers. Reducing

agents.

Hazardous decomposition

products

May include and are not limited to: Oxides of phosphorus. Oxides of nitrogen. Oxides of carbon.

Hydrogen gas. Nitrogen trichloride. Ammonia.

Irritating, corrosive and/or toxic gases or fumes may be emitted upon the products decomposition.

# 11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

**Ingestion** Causes digestive tract burns. May cause stomach distress, nausea or vomiting.

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.

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** 

Components S	pecies	Test Results
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Phosphoric acid (CAS 7664-38-2)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, ECHA

2740 mg/kg, RTECS

Inhalation

LC50 Guinea pig, Mouse, Rabbit, Rat 5337 mg/m3, 1 Hours, ECHA

3846 mg/m3, 1 Hours, ECHA 1689 mg/m3, 1 Hours, ECHA 1217 mg/m3, 1 Hours, ECHA 856 mg/m3, 1 Hours, ECHA 271 mg/m3, 1 Hours, ECHA 193 mg/m3, 1 Hours, ECHA

61 mg/m3, 1 Hours

Oral

LD50 Rat 1530 mg/kg, RTECS

1.7 ml/100g

Urea (CAS 57-13-6)

Acute

Dermal

LD50 Rabbit 21000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Cattle 510 mg/kg

Mouse 11500 mg/kg 11000 mg/kg

Rat 14300 mg/kg 8471 mg/kg

Sheep 510 mg/kg

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

Exposure minutes Not available.
Erythema value Not available.

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Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available. Not available. Iris lesion value Conjunctival reddening Not available.

value

Recover days

Conjunctival oedema value Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Phosphoric acid (CAS 7664-38-2) Irritant

Not available.

Respiratory sensitization Not a respiratory sensitizer.

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

Non-hazardous by WHMIS/OSHA criteria. Mutagenicity Carcinogenicity Non-hazardous by WHMIS/OSHA criteria.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Non-hazardous by WHMIS/OSHA criteria. Reproductive toxicity Non-hazardous by WHMIS/OSHA criteria. **Teratogenicity** 

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Non-hazardous by WHMIS/OSHA criteria.

# 12. Ecological Information

See below **Ecotoxicity** 

Ecotoxicological data

Components **Species Test Results** 

Phosphoric acid (CAS 7664-38-2)

Aquatic

Acute

LC50 Crustacea Water flea (Daphnia magna) 4.6 mg/L, 12 hr Fish LC50 Mosquitofish (Gambusia affinis affinis) 3 - 3.5 mg/L, 96 hr

Urea (CAS 57-13-6)

Crustacea EC50 Daphnia 10000 mg/L, 48 Hours

Aquatic

EC50 Water flea (Daphnia magna) 3910 mg/L, 48 hours Crustacea Fish LC50 Giant gourami (Colisa fasciata) 5 mg/L, 96 hours

Persistence and degradability

**Bioaccumulative potential** 

No data is available on the degradability of this product.

Mobility in soil

Mobility in general

No data available.

Other adverse effects

Not available.

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

# 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.

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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

Transport of Dangerous Goods (TDG) Proof of Classification

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

#### **U.S. Department of Transportation (DOT)**

Basic shipping requirements:

UN number UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s.

Technical name Phosphoric acid

Hazard class 8
Packing group II
Marine pollutant Yes

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

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242

# Transportation of Dangerous Goods (TDG - Canada)

**Basic shipping requirements:** 

UN number UN3264

Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical name Phosphoric acid

Hazard class 8
Packing group II
Special provisions 16

#### DOT



# TDG



# 15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

# Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

WHMIS 2015 Exemptions Not applicable

US federal regulations This product is 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)**

Phosphoric acid (CAS 7664-38-2) Listed.

#### US. 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

SARA 311/312 Hazardous No

chemical

## SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

#### **US state regulations**

# US - California Hazardous Substances (Director's): Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

#### **US - Illinois Chemical Safety Act: Listed substance**

Phosphoric acid (CAS 7664-38-2)

#### US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

**US - Minnesota Haz Subs: Listed substance** 

Phosphoric acid (CAS 7664-38-2) Listed. Urea (CAS 57-13-6) Listed.

#### US - New Jersey RTK - Substances: Listed substance

Phosphoric acid (CAS 7664-38-2)

# US - Texas Effects Screening Levels: Listed substance

Phosphoric acid (CAS 7664-38-2)
Urea (CAS 57-13-6)
Listed.

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

Phosphoric acid (CAS 7664-38-2)

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

Not regulated.

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

Phosphoric acid (CAS 7664-38-2)

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

Phosphoric acid (CAS 7664-38-2)

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

Not Listed.

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

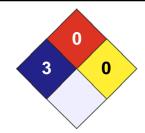
<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH /	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	Х



**Disclaimer** 

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date** 22-August-2017

Version # 02

Effective date 22-August-2017

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.