# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/11/2015

Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier** 

> Product form Mixture Product name Optimizer

Product code 8 55672 15200 3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Animal Health

Restrictions Products sold by animal health industry Paragon Specialty Products are intended for animal

health use only. Products are not to be used as human therapeutics, cosmetics, or pesticidal products, or as household chemicals,

1.3 Details of the supplier of the safety data sheet

Manufactured By: Paragon Specialty Products, LLC. 411 Ranch Road, PO Box 565

Rainsville, AL 35986 T 256-638-9636 - F 256-638-9637 paragonprod@farmerstel.com

14 Emergericy telephone number

> **Emergency number** CHEMTREC: 1-800-424-9300 or011-703-527-3887

### Placeification of the substance or mixture

### **GHS-US** classification

Skin Corr. 1B H314 Eve Dam, 1 H318

#### 22 I shal elements

### GHS-US labelling

Hazard pictograms (GHS-US)

Corrosive



Signal word (GHS-US)

Hazard statements (GHS-US)

Danger

H314 - Causes severe skin burns and eye damage Precautionary statements (GHS-US)

P260 - Do not breathe mist, vapours, spray P264 - Wash exposed skin thoroughly after handling

P280 - Wear protective gloves, eye protection

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower/ wash clothes

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards

Other hazards not contributing to the

None.

2.4. Unknown acute toxicity (GHS-US)

No data available

classification

## SECTION 3: Composition/information on ingredients

3.1. Substance

Organic Acid

03/11/15 EN (English)

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#020405

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Full text of H-phrases: see section 16

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	50.4	Not classified
Acetic Acid	(CAS No) 64-19-7	49.6	Flam. Liq. 3, H226
Cooper Proteinate	(CAS NO) IFN 6-09-896	< 5	Skin Corr. 1B, H314
Zinc Proteinate	(CAS NO) IFN 6-09-896	<5	Eye Dam. 1, H318
Lactic Acid	(CAS NO) 50-21-5	<5	
Propionic Acid	(CAS NO) 79-09-4	<5	

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

First-aid measures after inhalation 3: Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a

position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do, Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after eye contact : Causes serious eye damage.

### 4.3 Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

### SECTION 5: Firefighting measures

## 5.1. 🛷 Extinguishing media

Suitable extinguishing media Foam, Dry powder, Carbon dioxide, Water spray, Sand,

## 5.2 - Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapours.

## 5.3 Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enterenvironment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

### 6.1 Personal precautions protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapour. Do not breathe mist, vapours, spray.

Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Hygiene measures

Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

: Keep container closed when not in use. Storage conditions

Incompatible products : Strong oxidizers. metals. Strong bases.

Incompatible products : Sources of ignition. Direct sunlight.

#### 7.3 Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

10 ppm
10
10 ppm
25 mg/m³
10 ppm
_

#### 8.2. **Exposure controls**

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity

of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Eye protection Chemical goggles or face shield. Skin and body protection Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask.

Other information Do not eat, drink or smoke during use.

Log Pow

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# SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid : Blue Green Colour : Vinegar odour. Odour : No data available Odour threshold : No data available pН : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Freezing point : No data available **Boiling point** : No data available Flash point : No data available Self ignition temperature No data available Decomposition temperature Flammability (solid, gas) : No data available No data available Vapour pressure No data available Relative vapour density at 20 °C

No data available Relative density 1,06 g/ml Density Soluble in water. Solubility

: No data available Log Kow

: 2 cSt Viscosity, kinematic

: No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** 

EN (English)

No data available

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# SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

10.2 Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with (some) bases: release of heat.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong oxidizers, metals, Strong bases,

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Thermal decomposition generates: Corrosive vapours.

## SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Organic Acid Blend less than 50%	of Acetic, Lactic, and Proplonic Acid	
LD50 oral rat	2138 mg/kg	

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg

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

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure)

Not classified

. . .. .

Aspiration hazard 
Not classified

Potential Adverse human health effects and

Not classified

symptoms

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

Symptoms/injuries after eye contact

: Causes serious eye damage.

# SECTION 12: Ecological information

### 12.1 Toxicity

Perform Max	
LC50 fishes 1	75 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	47 mg/l (24 h; Daphnia magna; Not neutralized)
EC50 other aquatic organisms 1	> 5000 mg/l (5 h; Activated sludge)

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Mixture of Organic Acid of Acetic, Lac	ic, and Propionic Acid (64-19-7)	
LC50 fish 2	94 mg/l (96 h; Oryzias latipes)	
EC50 Daphnia 2	95 mg/l (24 h; Daphnia magna; Static system)	
TLM fish 1	100 ppm (96 h; Carassius auratus)	
Threshold limit algae 1	90 mg/l (192 h; Microcystis aeruginosa; Neutralized)	
Threshold limit algae 2	4000 mg/l (192 h; Scenedesmus quadricauda; Neutralized)	

### 12.2 Persistence and degradability

Mixture of Organic Acid less than 50% of Acetic,	Lactic, and Propionic Acid
Persistence and degradability	Not established.

Mixture of Organic Acid less than 50% of A	
Persistence and degradability	Readily biodegradable in water. Inherently biodegradable. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 - 0.74 g O <sup>2</sup> /g substance
Chemical oxygen demand (COD)	1.03 g O²/g substance
ThOD	1.07 g O²/g substance
BOD (% of ThOD)	0.56 - 0.69 % ThOD

Water (7732-18-5)		
Persistence and degradability	Not established.	

### 12.3. Bioaccumulative potential

Mixture of Organic Acid less than 50%	of Acetic, Lactic, and Propionic Acid	
Bioaccumulative potential	Not established.	

Mixture of Organic Acid less than 50% of Acetic,	Lactic, and Propionic Acid
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Bioaccumulation: not applicable.

Water (7732-18-5)		
Bioaccumulative potential	Not established.	

### 12.4. Mobility in soil

Mixture of Organic Acid less than 50%	of Acetic , Lactic, and Propionic Acid	
Surface tension	0.028 N/m (20 °C)	

# 12.5 Other adverse effects

Other information Avoid release to the environment.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# SECTION 14: Transport information

In accordance with DOT

Transport document description : UN3265 Corrosive Liquids, Acidic, Organic N.O.S., (Acetic acid, Lactic Acid, Proprionic

Acid), Class 8, III, Limited Quantity

UN-No.(DOT) : 3265
DOT NA no. : UN3265

DOT Proper Shipping Name UN3265 Corrosive Liquids, Acidic, Organic N.O.S., (Acetic acid, Lactic Acid, Proprionic Acid),

Class 8, III, Limited Quantity

Department of Transportation (DOT) Hazard

Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT) :8 – Limited Quantity

2/27/155/26/2016 EN (English)

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Packing group (DOT)

DOT Special Provisions (49 CFR 172.102)

Limited Quantity

: A3 - For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings.

A6 - For combination packagings, if plastic inner packagings are used, they must be packed in tightly closed metal receptacles before packing in outer packagings.

A7 - Steel packagings must be corrosion-resistant or have protection against corrosion.

A10 - When aluminum or aluminum alloy construction materials are used, they must be resistant to corresion.

B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal......178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 95 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: a = (d15 - d50) / 35\*d50 Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173,xxx) 154 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173,xxx) : 242 DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel,

Additional information

Other information

: No supplementary information available.

**ADR** 

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

## SECTION 15: Regulatory information

15.1. US Federal regulations :

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Mixture of Organic Acid less than 50% of Acetic, Lactic, and Propionic Acid (64-19-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory RQ (Reportable quantity, section 304 of EPA's 5000 lb List of Lists):

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Mindress of Consonia Ania	of Acetic, Lactic, and Propionic Acid 50% v/v (1+1)
Mixture of Organic Acid.	OFACEUG. Lacuic and Problemic Acid 50% V/V (1+1)

WHMIS Classification Class E - Corrosive Material

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Mixture of Organic Acid less than 50% of	Acetic, Lactic, and Propionic Acid (64-19-7)	
WHMIS Classification	Class E - Corrosive Material	

Water (7732-18-5)

Uncontrolled product according to WHMIS classification criteria WHMIS Classification

### **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

### 15,3. US State regulations

No additional information available

### SECTION 16: Other information

: None. Other information

Full tex

ext of H-phrases: see section 16:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

3 - Short exposure could cause serious temporary or NFPA health hazard

residual injury even though prompt medical attention was

given.

NFPA fire hazard 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, NFPA reactivity

and are not reactive with water.



**HMIS III Rating** 

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is Health

given

Flammability 0 Minimal Hazard 🗐 0 Minimal Hazard **Physical** 

: H Personal Protection

SDS US (GHS HazCom 2012)

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