

Safety Data Sheet

Material Name: Commence® for Corn, Product Code: 49601

SDS ID: 49601TS

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Commence® for Corn, Product Code: 49601

Product Use

Seed Treatment.

Restrictions on Use

Use Only as Directed on Label. Protect against direct sunlight. Protect from freezing.

Details of the supplier of the safety data sheet

Agnition
1600 Hahn Rd
Marshall MN 56258

Guaranteed by:
Ralco Nutrition, Inc.
1600 Hahn Road,
Marshall MN 56258
Phone: 1-855-832-0613

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1A

Skin Sensitization - Category 1A

Germ Cell Mutagenicity - Category 2

Carcinogenicity - Category 2

Reproductive Toxicity - Category 1B

GHS Label Elements**Symbol(s)****Signal Word**

Danger

Hazard Statement(s)

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

May damage fertility or the unborn child.

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Precautionary Statement(s)

Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear respiratory protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

Response

IF exposed or concerned: Get medical advice/attention.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: 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.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage

None needed according to classification criteria.

Disposal

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
7732-18-5	Water	70-90
12389-75-2	Monosodium ferric DTPA	1-15
10124-43-3	Cobalt sulfate	1-10

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

IF exposed or concerned: Get medical advice/attention.

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Skin

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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Eyes

Rinse cautiously with water for several minutes.

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

If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth.

Most Important Symptoms/Effects

Acute

Causes serious eye irritation.

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

May cause allergic skin reaction.

Delayed

Suspected of causing genetic defects.

Suspected of causing cancer.

May damage fertility or the unborn child.

Note to Physicians

Treat symptomatically.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water spray, regular dry chemical, fire-fighting foam, carbon dioxide.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Fire Fighting Measures

Co-ordinate fire-fighting measures to the fire surroundings.

Special Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective equipment as required.

Avoid contact with eyes and skin.

Methods and Materials for Containment and Cleaning Up

Absorb with sand or other non-combustible material.

Dispose in accordance with all applicable regulations.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear respiratory protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

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Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place.
Keep container tightly closed.
Store in a secure area.
Protect from freezing.
Protect against direct sunlight.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component 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.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Engineering Controls

Sufficient to maintain atmospheric concentrations below applicable regulatory limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Eye glasses with side protection, goggles.

Skin Protection

Wear suitable protective clothing.

Respiratory Protection

Wear respiratory protection.

Use only outdoors or in a well-ventilated area.

Glove Recommendations

Wear protective gloves.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Purple liquid	Physical State	Liquid
Odor	none	Color	Purple.
Odor Threshold	Not available	pH	Not available
Melting Point	0 °C (water)	Boiling Point	100 °C (water)
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	Not available
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available
Viscosity	<5 cps (STP)	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	1.03 g/ml at 25 °C
Molecular Weight	Not available		

Section 10 - STABILITY AND REACTIVITY**Reactivity**

No known hazardous reactions.

Chemical Stability

The product is stable under storage at normal ambient temperatures.

Conditions to Avoid

Avoid contact with incompatible materials.

Incompatible Materials

Nitric acid, hydrofluoric acid.

Hazardous decomposition products

No known hazardous decomposition products.

Section 11 - TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure****Inhalation**

Yes.

Skin Contact

Yes.

Eye Contact

Yes.

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Ingestion

Yes.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Cobalt sulfate (10124-43-3)

Oral LD50 Rat 424 mg/kg

Zinc sulphate (hydrous) (7446-19-7)

Oral LD50 Mouse 1891 mg/kg

FD and C Red No. 40 (25956-17-6)

Oral LD50 Rat >10 g/kg (no deaths occurred)

Dermal LD50 Rabbit 10000 mg/kg

Copper(II) carbonate hydroxide (12069-69-1)

Oral LD50 Rat 1350 mg/kg (in gum arabic ;males)

Dermal LD50 Rat >2000 mg/kg (no deaths occurred)

Inhalation LC50 Rat 1.2 mg/L 4 h

Cinnamaldehyde (104-55-2)

Oral LD50 Rat 2220 mg/kg

Dermal LD50 Rabbit 1260 mg/kg

Tannins (1401-55-4)

Oral LD50 Rat 2260 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

Causes serious eye damage.

Causes skin irritation.

May cause allergic skin reaction.

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Delayed Effects

May damage fertility.

May damage the unborn child.

Suspected of causing cancer.

Suspected of causing genetic defects.

Irritation/Corrosivity Data

Causes serious eye damage.

Causes skin irritation.

Respiratory Sensitization

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization

May cause allergic skin reaction.

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Component Carcinogenicity

Cobalt sulfate	10124-43-3
IARC:	Monograph 86 [2006] ; Monograph 52 [1991] (Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
OSHA:	Present
Tannins	1401-55-4
IARC:	Supplement 7 [1987] ; Monograph 10 [1976] (and tannins) (Group 3 (not classifiable))
Cobalt carbonate hydroxide	12602-23-2
IARC:	Monograph 52 [1991] (Group 2B (possibly carcinogenic to humans))
OSHA:	Present

Germ Cell Mutagenicity

Suspected of causing genetic defects.

Tumorigenic Data

No data available

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Repeated Exposure

No data available.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Cobalt sulfate	10124-43-3
Algae:	EC50 72 h Pseudokirchneriella subcapitata 0.4 - 72 mg/L IUCLID

Persistence and Degradability

No data available.

Bioaccumulative Potential

No data available.

Mobility

No data available.

Other Toxicity

No data available.

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Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

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

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated

TDG Information:

UN#: Not regulated

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Carcinogenicity; Reproductive Toxicity; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Germ Cell Mutagenicity

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Tannins	1401-55-4	Yes	No	No	No	No

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)



WARNING

This product can expose you to chemicals including Cobalt sulfate, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Cobalt sulfate	10124-43-3
Carc:	carcinogen , 5/20/2005

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Section 16 - OTHER INFORMATION

Summary of Changes

SDS: 2/6/2020

Supersedes SDS: 9/5/2018

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of Ralco's knowledge, information and belief at the date of preparation. The information provided is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The conditions or methods of said handling, storage, use, and disposal of this product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expenses arising out of or connected with the handling, storage, use, or disposal of this product. The information provided relates only to the specific material designated, and may not be valid for such material used in combination with any other materials or in any process, unless specified in text.