

Sphere o' Life Blast Prime

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Sphere o' Life Blast Prime**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Agricultural fertilizer.
Restriction on use: None known

Chemical family

: Mixture

Name, address, and telephone number
of the supplier:

AgVent LLC

1231 E 1420 N
Richfield, ID, USA
83349

Supplier's Telephone #

: 1-855-844-4632 (9am-5pm PST Monday to Friday)

24 Hr. Emergency Tel #

: 1-855-844-4632 (9am-5pm PST Monday to Friday)

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Blue-green powder. No discernable odor.

Most important hazards: Causes serious eye damage. May damage fertility or the unborn child. Occupational exposure to the substance or mixture may cause adverse effects.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:

Eye Damage/Irritation - Category 1
Reproductive Toxicity - Category 1B

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Causes serious eye damage.
May damage fertility or the unborn child.

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Precautionary statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.
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 or doctor/physician.

Store locked up.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause mild skin irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Protein hydrolyzates, soya	Not available.	68607-88-5	5.0 - 10.0
Zinc sulfate	Sulfuric acid, zinc salt Zinc sulfate anhydrous	7733-02-0	1.0 - 5.0
Ferrous sulfate	Not available.	7782-63-0	1.0 - 5.0
Manganese sulfate monohydrate	Not available.	10034-96-5	0.5 - 1.5
Copper sulfate	Cupric sulfate pentahydrate	7758-99-8	0.5 - 1.5
Ammonium molybdate	Not available.	12054-85-2	0.5 - 1.5
Boric Acid	Trihydroxidoboron	10043-35-3	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do not induce vomiting, unless directed to do so by qualified medical personnel. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
- Inhalation* : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration.
- Skin contact* : Wash off immediately with soap and plenty of water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it 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. If eye irritation persists: get medical advice/attention. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

- : Causes serious eye damage. May damage fertility or the unborn child. May cause mild skin irritation. Dust may irritate respiratory system.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Use water spray with caution. Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : Carbon oxides and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire-exposed containers. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up

- : Ventilate area of release. Stop the spill at source if it is safe to do so. Remove all sources of ignition. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): None.

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Avoid breathing fumes or mists. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from incompatibles. Keep containers tightly closed when not in use.

Conditions for safe storage : Store in original containers. Inspect all incoming containers to make sure they are properly labelled and not damaged.

Incompatible materials : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Protein hydrolyzates, soya	N/Av	N/Av	N/Av	N/Av
Zinc sulfate	N/Av	N/Av	N/Av	N/Av
Ferrous sulfate	1 mg/m ³ (as Fe, iron salts, soluble)	N/Av	1 mg/m ³ (as Fe, iron salts, soluble) (final rule limit)	N/Av
Manganese sulfate monohydrate	N/Av	N/Av	N/Av	N/Av
Copper sulfate	1 mg/m ³ (dust and mist, as Cu)	N/Av	1 mg/m ³ (dust and mist, as Cu)	N/Av
Ammonium molybdate	N/Av	N/Av	N/Av	N/Av
Boric Acid	2 mg/m ³ (inhalable fraction, listed under Borate compounds, inorganic)	6 mg/m ³ (inhalable fraction, listed under Borate compounds, inorganic)	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

- : Use only in well-ventilated areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

- : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection

- : Wear chemical splash goggles to prevent dusts from entering the eyes.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

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General hygiene considerations

- : Do not ingest. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Blue-green powder.
- Odour** : No discernable odor.
- Odour threshold** : Not available.
- pH** : 5.71
- Melting Point/Freezing point** : Not available.

Initial boiling point and boiling range

- : Not available.

- Flash point** : Not available.
- Flashpoint (Method)** : Not available.
- Evaporation rate (BuAe = 1)** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : Not available.

Upper flammable limit (% by vol.)

- : Not available.

- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : Not available.
- Vapour density** : Not available.

Relative density / Specific gravity

- : Not available.

- Solubility in water** : Soluble.
- Other solubility(ies)** : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

- : Not available.

- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- Volatiles (% by weight)** : Not available.

Volatile organic Compounds (VOC's)

- : Not available.

Absolute pressure of container

- : Not applicable.

- Flame projection length** : Not applicable.

Other physical/chemical comments

- : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.
- Chemical stability** : Material is stable under normal conditions.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur.

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- Conditions to avoid** : Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.
- Incompatible materials** : See Section 7 (Handling and Storage) for further details.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : May cause respiratory irritation. Symptoms may include coughing and sneezing.

Sign and symptoms ingestion

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

- : May cause mild transient irritation.

Sign and symptoms eyes

- : Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Potential Chronic Health Effects

- : Harmful effects are not expected under normal usage.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Classification: Reproductive Toxicity - Category 1B
May damage fertility or the unborn child.
Boric acid may cause fetotoxic and teratogenic effects at dose which are not maternally toxic, based on animal data.

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects

- : Target Organs: Eyes, Respiratory system, Reproductive system.

According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.

Medical conditions aggravated by overexposure

- : Pre-existing skin, eye and respiratory disorders.

Synergistic materials

- : Not available.

Toxicological data

- : See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Protein hydrolyzates, soya	N/Av	N/Av	N/Av
Zinc sulfate	N/Av	1710 mg/kg	> 2000 mg/kg (No mortality)
Ferrous sulfate	N/Av	N/Av	N/Av
Manganese sulfate monohydrate	N/Av	2150 mg/kg	N/Av
Copper sulfate	N/Av	481 mg/kg	> 2000 mg/kg (No mortality)
Ammonium molybdate	N/Av	N/Av	N/Av
Boric Acid	>2.12 mg/L	2660 mg/kg	>2000 mg/kg

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Protein hydrolyzates, soya	68607-88-5	N/Av	N/Av	None.
Zinc sulfate	7733-02-0	0.169 mg/L (dissolved zinc) (Rainbow trout)	0.025 mg/L/25 days (dissolved zinc)	1
Ferrous sulfate	7782-63-0	N/Av	N/Av	None.
Manganese sulfate monohydrate	10034-96-5	130 mg/L (Cyprinid)	N/Av	None.
Copper sulfate	7758-99-8	0.032 mg/L (Rainbow trout)	N/Av	10
Ammonium molybdate	12054-85-2	N/Av	N/Av	None.
Boric Acid	10043-35-3	79.1mg/L (Fathead minnow)	102 mg/L (Fathead minnow)	None.

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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Protein hydrolyzates, soya	68607-88-5	N/Av	N/Av	None.
Zinc sulfate	7733-02-0	0.131 mg/L (dissolved zinc) (Daphnia magna)	0.1 mg/L (dissolved zinc)	1
Ferrous sulfate	7782-63-0	N/Av	N/Av	None.
Manganese sulfate monohydrate	10034-96-5	N/Av	N/Av	None.
Copper sulfate	7758-99-8	0.18 mg/L (Daphnia magna)	N/Av	1
Ammonium molybdate	12054-85-2	N/Av	N/Av	None.
Boric Acid	10043-35-3	102 mg/L (Daphnia magna)	11.2mg/L (Daphnia magna)	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Protein hydrolyzates, soya	68607-88-5	N/Av	N/Av	None.
Zinc sulfate	7733-02-0	0.136 mg/L/72hr (dissolved zinc) (Green algae)	0.024 mg/L/72hr (dissolved zinc)	1
Ferrous sulfate	7782-63-0	N/Av	N/Av	None.
Manganese sulfate monohydrate	10034-96-5	61 mg/L/96 hours (Green algae)	N/Av	None.
Copper sulfate	7758-99-8	N/Av	N/Av	N/Av
Ammonium molybdate	12054-85-2	N/Av	N/Av	None.
Boric Acid	10043-35-3	40mg/L (Green algae)	17.5mg/L (Green algae)	None.

Persistence and degradability

: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Zinc sulfate (CAS 7733-02-0)	- 0.07 (estimated)	28.3 - 96.05 (Zebra fish)
Copper sulfate (CAS 7758-99-8)	N/Av	
Boric Acid (CAS 10043-35-3)	0.175	0

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle waste according to recommendations in Section 7.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

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RCRA : Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	
49CFR/DOT Additional information	None.				

Special precautions for user : None reported by the manufacturer.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Protein hydrolyzates, soya	68607-88-5	Yes	N/Ap	N/Av	No	NS
Zinc sulfate	7733-02-0	Yes	1000 lb/ 454 kg	None.	Yes	1%
Ferrous sulfate	7782-63-0	NL	1000 lb final RQ (listed under Ferrous sulfate); 454 kg final RQ (listed under Ferrous sulfate)	N/Av	No	N/Ap
Manganese sulfate monohydrate	10034-96-5	NL	N/Ap	N/Av	No	NS
Copper sulfate	7758-99-8	Yes	N/Ap	N/Ap	No	N/Ap
Ammonium molybdate	12054-85-2	NL	N/Ap	N/Av	No	NS
Boric Acid	10043-35-3	Yes	N/Ap	N/Av	No	NS

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Protein hydrolyzates, soya	68607-88-5	No	N/Ap	No	No	No	No	No	No
Zinc sulfate	7733-02-0	No	N/Ap	Yes	Yes	No	Yes	Yes	No
Ferrous sulfate	7782-63-0	No	N/Ap	No	Yes	No	No	Yes	No
Manganese sulfate monohydrate	10034-96-5	No	N/Ap	No	No	No	No	No	No
Copper sulfate	7758-99-8	No	N/Ap	No	No	No	No	No	No
Ammonium molybdate	12054-85-2	No	N/Ap	No	No	No	No	No	No
Boric Acid	10043-35-3	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Protein hydrolyzates, soya	68607-88-5	271-770-5	Present	Present	(8)-313	KE-29892	Present	
Zinc sulfate	7733-02-0	231-793-3	Present	Present	(1)-542	KE-35582	Present	HSR003279
Ferrous sulfate	7782-63-0	N/Av	Present	Present	(1)-359		Present	HSR003427
Manganese sulfate monohydrate	10034-96-5	N/Av	Present	Present	(1)-477		Present	HSR004019
Copper sulfate	7758-99-8	231-847-6 (anhydrous)	Present	Present	(1)-300 (anhydrous)	KE-08956 (anhydrous)	Present	HSR003126
Ammonium molybdate	12054-85-2	N/Av	Present	Present			Present	HSR006202
Boric Acid	10043-35-3	233-139-2	Present	Present	(1)-63	KE-03499	Present	HSR002995

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DOT: Department of Transportation
EPA: Environmental Protection Agency

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HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NFFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
- 2. ECHA - European Chemical Agency
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

AgVent LLC
1231 E 1420 N
Richfield, ID, USA, 83349
Telephone: (208) 401 6631

Prepared by:

ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)
<http://www.thecompliancecenter.com>



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DISCLAIMER

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