SAFETY DATA SHEET



1. Identification

Product identifier CANOPY BLAST 0-15-0

Other means of identification None

Recommended use Ag Product - Plant Nutrition

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC Wilbur-Ellis Company LLC

16300 Christensen Rd. Ste 135

Tukwila, WA 98188 United States

Telephone Branded Products Information (800) 500-1698

E-mail SDS@wilburellis.com

Emergency phone number Chemtrec - Domestic (800) 424-9300 Chemtrec - International +1 703-741-5970

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Do not breathe dust. Use only outdoors or in a well-ventilated area.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

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 None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dicalcium Phosphate		7757-93-9	30 - < 40
Zinc Oxide		1314-13-2	20 - < 30
Ferrous Sulfate		7782-63-0	10 - < 20
Manganese Carbonate		598-62-9	10 - < 20

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Chemical name Common name and synonyms		CAS number	%	
Magnesium Oxide		1309-48-4	5 - < 10	
Cupric Chloride Dihydrate		10125-13-0	3 - < 5	
Manganese Sulfate		7785-87-7	3 - < 5	
Other components below reportal	ole levels		< 1	

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

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

Headache. Nausea, vomiting. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Most important symptoms/effects, acute and

Prolonged exposure may cause chronic effects.

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.

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.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

delayed

Specific hazards arising from

the chemical Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

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

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

During fire, gases hazardous to health may be formed.

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

Use water spray to cool unopened containers.

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

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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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 This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Large Spills: Wet down with water and dike for later disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: For waste disposal, see section 13 of the SDS.

Never return spills to original containers for re-use.

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

7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid prolonged exposure.

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occ

omponents	Туре	Value	Form
lagnesium Oxide (CAS 309-48-4)	PEL	15 mg/m3	Total particulate.
langanese Carbonate CAS 598-62-9)	Ceiling	5 mg/m3	
langanese Sulfate (CAS 785-87-7)	Ceiling	5 mg/m3	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3 15 mg/m3	Respirable fraction. Total dust.
S. ACGIH Threshold Limit Value			_
omponents	Туре	Value	Form
upric Chloride Dihydrate CAS 10125-13-0)	TWA	1 mg/m3	Dust and mist.
errous Sulfate (CAS 782-63-0)	TWA	0.2 mg/m3 1 mg/m3	Fume.
lagnesium Oxide (CAS 309-48-4)	TWA	10 mg/m3	Inhalable fraction.
langanese Carbonate CAS 598-62-9)	TWA	0.1 mg/m3	Inhalable fraction.
langanese Sulfate (CAS 785-87-7)	TWA	0.02 mg/m3 0.1 mg/m3	Respirable fraction. Inhalable fraction.
•	STEL	0.02 mg/m3	Respirable fraction.
inc Oxide (CAS 314-13-2)	TWA	10 mg/m3	Respirable fraction.
S. NIOSH: Pocket Guide to Chen		2 mg/m3	Respirable fraction.
omponents	Туре	Value	Form
upric Chloride Dihydrate CAS 10125-13-0)	TWA	1 mg/m3	Dust and mist.
errous Sulfate (CAS 782-63-0)	TWA	1 mg/m3	
langanese Carbonate CAS 598-62-9)	STEL	3 mg/m3	Fume.
,	TWA	1 mg/m3	Fume.
anganese Sulfate (CAS 785-87-7)	STEL	3 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
nc Oxide (CAS 314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3 5 mg/m3	Dust. Fume.

Biological limit values Appropriate engineering controls

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

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eve/face protection Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing. Use of an impervious apron is recommended.

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

exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece,

dust and mist filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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.

9. Physical and chemical properties

Appearance

Physical state Solid.
Form Powder.
Color Not available.
Odor Not available.
Odor threshold Not available.
Ph Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

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 pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

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

10. Stability and reactivity

ReactivityThe 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.

Incompatible materials

Phosphorus. Chlorine.

Hazardous decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by

inhalation. Dust may irritate respiratory system.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

toxicological characteristics

Headache. Nausea, vomiting. Dusts may irritate the respiratory tract, skin and eyes. Coughing.

Information on toxicological effects

Acute toxicity	Harmful if inhaled.	
Components	Species	Test Results
Cupric Chloride Dihydrate ((CAS 10125-13-0)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	584 mg/kg
Dicalcium Phosphate (CAS	3 7757-93-9)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
		> 2000 mg/kg, 72 Hours
lub alatia u		

Inhalation

LC50 Rat > 2.6 mg/l, 4 Hours

Oral

LD50 Rat > 2000 mg/kg 7940 ml/kg

Ferrous Sulfate (CAS 7782-63-0)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Mouse 670 - 680 mg/kg

Mouse, Rat 2625 mg/kg
Rat > 2000 mg/kg

3.2 g/kg

Manganese Carbonate (CAS 598-62-9)

Acute Oral

LD50 Rat > 2000 mg/kg

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Components **Test Results Species**

Manganese Sulfate (CAS 7785-87-7)

Acute

Oral

LD50 Mouse 2330 mg/kg

Rat 2150 mg/kg

Zinc Oxide (CAS 1314-13-2)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Mouse > 5.7 mg/l, 4 Hours

2500 mg/m3

Rat > 5700 mg/m3, 4 Hours

Oral

LD50 Mouse > 5000 mg/kg

> Rat > 15000 mg/kg

> > > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated

exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. 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.

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

Bioaccumulative potential No data available. 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.

^{*} Estimates for product may be based on additional component data not shown.

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

Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied. Empty containers should be taken to an approved waste handling site

for recycling or disposal.

14. Transport information

DOT

UN number UN3077

UN proper shipping name

Environmentally hazardous substances, solid, n.o.s. (Ferrous Sulfate RQ = 6897 LBS), MARINE

POLLUTANT (Cupric Chloride Dihydrate)

Transport hazard class(es)

Class 9 Subsidiary risk 9 Label(s) Packing group Ш **Environmental hazards**

> Marine pollutant Yes

Special precautions for user Not regulated when transported by road in a non-bulk package, in less than reportable quantity

(RQ). See RQ(s). Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions 155 Packaging non bulk 213 Packaging bulk 240

IATA

UN number UN3077

UN proper shipping name Transport hazard class(es) Environmentally hazardous substance, solid, n.o.s. (Zinc Oxide, Ferrous Sulfate)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards** Yes 9L **ERG Code**

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN3077 **UN number**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide, Ferrous Sulfate), **UN proper shipping name**

MARINE POLLUTANT

Transport hazard class(es)

Class 9 Subsidiary risk Ш Packing group

Environmental hazards

Marine pollutant Yes F-A. S-F FmS

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

SDS US

DOT; IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

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

Standard, 29 CFR 1910.1200.

All components are listed on or exempted from the U.S. EPA TSCA Inventory List.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ferrous Sulfate (CAS 7782-63-0)

Manganese Carbonate (CAS 598-62-9)

Manganese Sulfate (CAS 7785-87-7)

Zinc Oxide (CAS 1314-13-2)

Listed.

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous N

No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
ZINC COMPOUNDS	1314-13-2	20 - < 30
MANGANESE COMPOUNDS	598-62-9	10 - < 20
COPPER COMPOUNDS (WITH EXCEPTIONS)	10125-13-0	3 - < 5
MANGANESE COMPOUNDS	7785-87-7	3 - < 5

Other federal regulations

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

Manganese Carbonate (CAS 598-62-9) Manganese Sulfate (CAS 7785-87-7)

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. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Magnesium Oxide (CAS 1309-48-4)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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

Issue date 08-29-2017

Version # 01

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



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