

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : IVC FIR BARK P.S.T
Product code : 89168-142-89391

1.2. Recommended use and restrictions on use

1.3. Supplier

INNICTIS® CROP CARE, LLC
1880 Fall River Drive, Suite 100
Loveland, CO 80538
T 855-466-8428

1.4. Emergency telephone number

Emergency number : ChemTrec 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H317 - May cause an allergic skin reaction.

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water/...
P321 - Specific treatment (see supplemental first aid instruction on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to ... in accordance with local/regional/national regulations

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : Causes moderate eye irritation. Avoid contact with eyes, or clothing. Wear long sleeved shirt, long pants, shoes, and socks. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

IVC FIR BARK P.S.T

Safety Data Sheet

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

Name	Product identifier	%	GHS-US classification
DOUGLAS FIR BARK	NA	PROPRIETARY	Not classified
talc	(CAS-No.) 14807-96-6	PROPRIETARY	Not classified
calcium sulfate	(CAS-No.) 7778-18-9	PROPRIETARY	Eye Irrit. 2B, H320 STOT SE 3, H335
Mancozeb (Mancozeb a coordination product of zinc ion manganese ethylene bisdithiocarbamate)	(CAS-No.) 8018-01-7	6	Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

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 : Allow affected person to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects (acute and delayed)

- Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
- 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

- 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 : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

IVC FIR BARK P.S.T

Safety Data Sheet

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

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

IVC FIR BARK P.S.T	
No additional information available	
talc (14807-96-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	2 mg/m ³
calcium sulfate (7778-18-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Calcium sulfate, the anhydrate
ACGIH TWA (mg/m ³)	10 mg/m ³
Remark (ACGIH)	TLV® Basis: Nasal symptoms
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Calcium sulfate
OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
DOUGLAS FIR BARK	
No additional information available	
mancozeb (8018-01-7)	
No additional information available	

8.2. Appropriate engineering controls

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

IVC FIR BARK P.S.T

Safety Data Sheet

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Colourless
Odour	: characteristic
Odour threshold	: No data available
pH	: 4.29
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2 lbs/ft ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

IVC FIR BARK P.S.T

Safety Data Sheet

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

calcium sulfate (7778-18-9)	
LD50 oral rat	> 1584 mg/kg bodyweight (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)

mancozeb (8018-01-7)	
LD50 oral rat	5000 mg/kg (Rat)
LD50 dermal rat	10000 mg/kg (Rat)
LD50 dermal rabbit	5000 mg/kg (Rabbit)

Skin corrosion/irritation	: Not classified pH: 4.29
Serious eye damage/irritation	: Not classified pH: 4.29
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

talc (14807-96-6)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
-----------------------	------------------

STOT-single exposure	: Not classified
----------------------	------------------

calcium sulfate (7778-18-9)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure	: Not classified
------------------------	------------------

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: This pesticide is toxic to aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.
-----------------	---

talc (14807-96-6)	
LC50 fish 1	> 100 g/l (24 h; Brachydanio rerio; Intermittent flow)

calcium sulfate (7778-18-9)	
LC50 fish 1	2980 mg/l (96 h; Lepomis macrochirus)
LC50 fish 2	> 56000 mg/l (96 h; Gambusia affinis)

mancozeb (8018-01-7)	
LC50 fish 1	0.074 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Measured concentration)
EC50 Daphnia 1	0.073 mg/l (48 h; Daphnia magna; Measured concentration)
Threshold limit algae 1	0.044 mg/l (120 h; Selenastrum capricornutum)

12.2. Persistence and degradability

IVC FIR BARK P.S.T	
Persistence and degradability	Not established.

talc (14807-96-6)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable

IVC FIR BARK P.S.T

Safety Data Sheet

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

talco (14807-96-6)	
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
calcium sulfate (7778-18-9)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
DOUGLAS FIR BARK	
Persistence and degradability	Not established.
mancozeb (8018-01-7)	
Persistence and degradability	Hydrolysis in water. Biodegradable in the soil. No inhibition of biodegradation process in the soil. Not established.

12.3. Bioaccumulative potential

IVC FIR BARK P.S.T	
Bioaccumulative potential	Not established.
talco (14807-96-6)	
Bioaccumulative potential	Not established.
calcium sulfate (7778-18-9)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
DOUGLAS FIR BARK	
Bioaccumulative potential	Not established.
mancozeb (8018-01-7)	
Partition coefficient n-octanol/water (Log Pow)	1.33 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid unintentional release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

Not regulated by US DOT for ground shipment.

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

IVC FIR BARK P.S.T

Safety Data Sheet

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

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

IVC FIR BARK P.S.T	
SARA Section 311/312 Hazard Classes	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

DOUGLAS FIR BARK	CAS-No. N/A	%
mancozeb	CAS-No. 8018-01-7	%

FIFRA Labelling	
EPA Registration Number	89168-142-89391
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.	
FIFRA Signal Word	Caution
FIFRA Precautionary Statement	Call a doctor if you feel unwell. Keep out of reach of children.
FIFRA Human Health Hazards	Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long sleeved shirt, long pants, shoes, and socks. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals..
FIFRA First Aid	IF IN EYES: <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice. Have the product container or label with you when you call the poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment.
FIFRA Environmental Hazards	This pesticide is toxic to aquatic organisms. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

15.2. International regulations

CANADA

talc (14807-96-6)
Listed on the Canadian DSL (Domestic Substances List)
calcium sulfate (7778-18-9)
Listed on the Canadian DSL (Domestic Substances List)


EU-Regulations

No additional information available

National regulations

IVC FIR BARK P.S.T
This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

15.3. US State regulations

 **WARNING:** This product can expose you to mancozeb, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

IVC FIR BARK P.S.T

Safety Data Sheet

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

Component	State or local regulations
talco(14807-96-6)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
calcium sulfate(7778-18-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-statements:

H317	May cause an allergic skin reaction.
H320	Causes eye irritation
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.