Safety Data Sheet

Vin-Film®

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
COMMISSION REGULATION (EU) No. 2020/878

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

1.1. Product identifier

Product name Vin-Film®

Pure substance/mixture Mixture

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

Recommended use Adjuvant

Uses advised against All uses which are not covered by the exposure scenarios in Annex 1

1.3. Details of the supplier of the safety data sheet

Company
Miller Chemical and Fertilizer, LLC
120 Radio Rd
Hanover, PA 17331
Tel.: 717-632-8921
Fax.: 717-646-1104

Internet http://www.millerchemical.com

E-mail info@millerchemical.com

1.4. Emergency telephone number

CHEMTREC: +1 800 424 9300 or International +1 703 527 3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

(CLP) Regulation (EC 1272/2008)
Skin Irrit. 2 (H315)
Skin Sens. 1 (H317)
Aquatic Acute 1 (H400)
Aquatic Chronic 1 (H410)

GHS Classification
Skin Irritant Category 2; H315
Aquatic Acute Category 1; H400
Aquatic Chronic Category 1; H410

2.2. Label elements

Symbols/Pictograms

Signal Word Warning

Hazard Statements
H315 - Causes skin irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention
P280 - Wear protective gloves/protective clothing and eye/face protection
P272 - Contaminated work clothing should not be allowed out of the workplace
P264 - Wash hands thoroughly after handling
P273 - Avoid release to the environment
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

Response
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P391 - Collect spillage

Disposal
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Additional information Not applicable

Hazards not otherwise classified (HNOC) None known

SECTION 3: Composition/information on ingredients

3.2. Mixture

Mixture
This product has been tested as a whole to determine its hazard - see section 11

Chemical Name	CAS Number	EC No	EU REACH registration number	(CLP) Regulation (EC 1272/2008)	Annex	Weight-%
Oligomerisation products of beta-pinene	Not available	701-246-8	01-2119488053-38	Skin Irrit. Cat. 2 (H315); Skin Sens. Cat. 1 (H317); Aquatic Acute Cat. 1 (H400); Aquatic Chronic Cat. 1 (H410)	--	96
Alcohols, C12-16, ethoxylated	68551-12-2	500-221-7	--	Eye Dam. Cat. 1 (H318); Aquatic Acute Cat. 1 (H400)	--	1-2.5
Benzenesulfonic acid, C10-13-alkyl dervis., calcium salt	1335202-81-7	932-231-6	01-2119560592-37	Eye Dam. Cat. 1 (H318); Skin Irrit. Cat. 2 (H315); Aquatic Chronic Cat. 3 (H412)	--	0.5-1.5

Additional information
This product is considered non-ionic.

Exempt or - : this substance or its uses are exempted from REACH registration or no REACH registration obligation as annual tonnage <1tpa.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Get medical attention.
Ingestion	DO NOT INDUCE VOMITING. If vomiting occurs naturally, reduce the risk of aspiration by leaning their body forward. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
4.2. Most important symptoms and effects, both acute and delayed	May cause skin irritation.
4.3. Indication of any immediate medical attention and special treatment needed	Treatment should be symptomatic and supportive. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media
Dry chemical. Carbon dioxide (CO2). Water spray (fog). Sand/Earth.

Unsuitable Extinguishing Media
None known.

5.2. Special hazards arising from the substance or mixture
Carbon oxides. Combustion products may be toxic.

5.3. Advice for firefighters

Special protective equipment for firefighters
None known. Wear self-contained breathing apparatus and protective suit.

Fire-fighting measures
Water mist may be used to cool closed containers. No special fire protection measures are necessary. Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	Keep unauthorized personnel away. In case of fire: Stop leak if safe to do so.
For non-emergency personnel	Keep unauthorized personnel away.
For emergency responders	Keep unauthorized personnel away. Use personal protection recommended in Section 8.
6.2. Environmental precautions	Avoid runoff to waterways and sewers.
6.3. Methods and material for containment and cleaning up	Shut off leak if safe to do so. Dike area, recover and reclaim material if possible. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Absorb the liquid on material such as sand, vermiculite, or other inert, noncombustible absorbent and place in a clean, dry container suitable for disposal. Containers should be closed and segregated for later disposal. Scrub the area with detergent and water.
6.4. Reference to other sections	See Section 8 for exposure controls and personal protection. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Wear appropriate personal protective clothing to prevent skin contact.

7.2. Conditions for safe storage, including any incompatibilities

For industrial use only. Keep container closed when not in use. Provide adequate ventilation when container are open. Keep at temperatures between 41°F and 104°F (5°C and 40 °C). Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No information available

Biological Limit Values

None

Recommended monitoring procedures

Refer also to national guidance documents for information on currently recommended monitoring procedures

DNEL (Derived No Effect Level)

Worker Derived No-Effect Level (DNEL) values:
Inhalation: 2493 mg/m^3 (acute, systemic), 12.2 mg/m^3 (chronic, systemic)
Dermal: 1526 mg/kg (acute, systemic), 3.47 mg/kg/day (chronic, systemic)

General population Derived No-Effect Level (DNEL) values:
- Inhalation: 1772 mg/m^3 (acute, systemic), 3.63 mg/ m3 (chronic, systemic)
- Dermal: 727 mg/kg (acute, systemic), 2.08 mg/kg/day (chronic, systemic)

PNEC (Predicted No Effect Concentration)

Predicted No-Effect Concentration (PNEC) values:
PNEC Freshwater: 2 µg/l
PNEC Intermittent: 2.4 µg/l
PNEC STP: 1000 µg/l
PNEC Freshwater Sediment: 1.26 mg/kg dw
PNEC Soil: 1 mg/kg dw
PNEC Oral: 33.3 mg/kg

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

Personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear suitable protective clothing.

Hand Protection

Wear suitable gloves.

Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
Thermal hazards	Wear suitable protective clothing.
Hygiene Measures	Follow general hygiene considerations recognized as common good workplace practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	
Physical State	Liquid viscous
Color	Yellow
Odor	Not specified
pH	7.5 - 7.7
Melting point / Freezing point	<-12 °C
Initial boiling point	325 °C (oligomerization products of beta-pinene)
Boiling Point / Boiling Range	Not determined
Freezing Point	Not determined
Flash Point	>100 °C (not considered flammable)
Evaporation Rate	Not determined
Flammability (solid, gas)	Not applicable
Vapor Pressure	0.0212 Pa @ 25 °C
Vapor Density	Not determined (Air = 1)
Density	No data available
Relative Density	0.918 - 0.93 g/cm³ (20 °C)
Water Solubility	8.84E-04 g/l @ 20 °C in water (Oligomerisation products of beta-pinene)
Partition coefficient	>6.5 @ 30 °C, n-octanol/water (Oligomerisation products of beta-pinene)
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	400 - 900 cps @ 23°C.
Kinematic viscosity	No data available
Oxidizing Properties	Not applicable
Autoignition Temperature	268 °C
Particle Size	No information available
Specific Gravity	No data available
Percent Volatile	Not determined
VOC Content (%)	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable under normal conditions
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions	No specific hazard known
10.4. Conditions to avoid	None known
10.5. Incompatible materials	None known
10.6. Hazardous decomposition products	None known

SECTION 11: Toxicological information

General Information Users are advised to consider national Occupational Exposure Limits or other equivalent values.

Information on Likely Routes of Exposure

Inhalation May cause slight irritation if mist occurs

Skin May cause irritation

Eyes May cause irritation.

Ingestion Large amount of material can cause serious diarrhea. Nausea and vomiting may also occur and possibly abdominal cramping.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity LC50 Inhalation: >4.43 mg/l (rat, OECD 403 study)
LD50 Dermal: >4000 mg/kg (rat, OECD 402 study)
LD50 Oral: >16000 mg/kg (rat, OECD 401 study)

Chronic Effects None known

Respiratory Sensitization Did not cause contact sensitisation in Guinea pigs (OECD 406 Enhanced Buehler test) or human volunteers (Closed Patch Test in 53 volunteers: oligomerisation products of beta-pinene tested). Positive in Guinea Pig maximisation test (EU Method B.6), which used intradermal injection and adjuvant (immune system stimulant). Risk of dermal sensitisation for man therefore uncertain, but classified as sensitising.

Serious eye damage/eye irritation Contact with eyes may cause irritation

Skin Corrosion/Irritation Irritant

Mutagenicity Not mutagenic

Germ cell mutagenicity Negative in vitro (Ames test, OECD 471 andcytogenetic test, OECD 473). Negative in vivo (mouse micronucleus test, EU Method B.12 and rat liver UDS test, OECD486).

Reproductive Toxicity Based on available data, the classification criteria are not met

Carcinogenicity Based on available data, the classification criteria are not met

Specific target organ toxicity - Single exposure Acute studies revealed no toxic effects at doses up to 16000 mg/kg in rats.

Specific target organ toxicity - Repeated exposure In a 4-week rat study, no toxic effects were observed at 1000 mg/kg (rats, OECD guideline 407).

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

11.2.2. Other information Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity to fish:
- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: 5.7 mg/l
- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: 7.5 mg/l
- Oncorhynchus mykiss, (OECD guideline 203) 96h LC50: > 6.5 mg/l

Acute toxicity to aquatic invertebrates:
- Daphnia magna, (OECD guideline 202) 48h EC50: 0.26 mg/l
- Daphnia magna, (EU Method C.2) 48h EC50: ≥ 2.16 - ≤ 9.74 mg/l

Toxicity to algae:
- Pseudokirchnerella subcapitata, (OECD guideline 201) 72h ErC50: 0.24 mg/l, 72h EbC50: 0.18 mg/l, 72h NOEC: 0.1 mg/l.

Toxicity to bacteria:
- Activated sludge (growth inhibition), (OECD guideline 209) EC50: >100 mg/l

Chronic toxicity to aquatic invertebrates:
- Daphnia magna, 21d NOEC: 0.12 mg/l (read-across to close chemical analogue)
- Daphnia magna, 21d NOEC: 0.27 mg/l (read-across to close chemical analogue)

12.2. Persistence and degradability

Not readily biodegradable 8% degradation over 28 days in OECD 301D Closed Bottle test. Not rapidly biodegraded in a test for inherent biodegradability (3% degradation over 28 days, OECD 301B method using acclimated, mixed soil/sludge inoculum). Slow biodegradation predicted, based on chemical analogy to ubiquitous phytoterpenes.

12.3. Bioaccumulative potential

Not determined experimentally.

Partition coefficient

>6.5 @ 30 °C, n-octanol/water (Oligomerisation products of beta-pinene)

Bioconcentration factor (BCF)

QSAR calculations of BCF based on chemical structure and physical properties give BCF values of 175 (based on QSAR-estimated log Kow, 9.29) and 6295 (based on log Kow 6.5). BCF indicator for bioaccumulation is concluded to be >2000 but <5000.

12.4. Mobility in soil

KOC: >28840 (Log KOC: >4.46); HPLC estimation method
Note: Oligomerisation products of beta-pinene are expected to bind strongly to organic matter.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB

12.6. Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods — If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extend of contamination may require use of specialized disposal methods. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging — Product residue may remain in empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

Mode of Transportation (Road, Water, Air, Rail)

ADR	Not regulated
RID	Not regulated
ADN	Not regulated
IATA	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Oligomerisation products of beta-pinene), 9, PG III, Marine Pollutant
IMDG/IMO	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Oligomerisation products of beta-pinene), 9, PG III, Marine Pollutant
ICAO	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Oligomerisation products of beta-pinene), 9, PG III, Marine Pollutant

14.1. UN number or ID number — UN3082

14.2. UN proper shipping name — Environmentally hazardous substance, liquid, n.o.s. (Oligomerisation products of beta-pinene)

14.3. Transport hazard class(es) — 9

14.4. Packing group — III

14.5. Environmental hazards — Marine Pollutant

14.6. Special precautions for user — Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global Inventories

Chemical Name	CAS Number	EC No	EU REACH registration number
Oligomerisation products of beta-pinene	Not available	701-246-8	01-2119488053-38
Alcohols, C12-16, ethoxylated	68551-12-2	500-221-7	--

Benzenesulfonic acid, C10-13-alkyl dervis., calcium salt	1335202-81-7	932-231-6	01-2119560592-37

Legend
X / Y: Complies ; A: Active ; - / N: Exempt / Not Listed

Chemical safety assessment A chemical safety assessment has been carried out for oligomerisation products of beta-pinene.

SECTION 16: Other information

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Reason for Revision
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & COMMISSION REGULATION (EU) No. 2020/878

(CLP) Regulation (EC 1272/2008)
Skin Irrit. 2 (H315)
Skin Sens. 1 (H317)
Aquatic Acute 1 (H400)
Aquatic Chronic 1 (H410)

Labeling

Symbols/Pictograms

Signal Word
Warning

Hazard Statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H410 - Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
GHS (Globally Harmonized System)
IARC (International Agency for Research on Cancer)
PPE (Personal Protection Equipment)
TWA (Time-Weighted Average)
CLP (The Classification, Labeling and Packaging of Substances and Mixtures Regulation (EC 1272/2008))
TLV® (Threshold Limit Value)
STEL (Short Term Exposure Limit)
RQ (Reportable Quantity) (RQ/% in mixture)
DOT (Department of Transportation)
TDG (Transport of Dangerous Goods) Canada
IATA (International Air Transport Association)
IMDG (International Maritime Dangerous Goods)
ICAO (International Civil Aviation Organization)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information 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 the text.

End of Safety Data Sheet