

SAFETY DATA SHEET.

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Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name 046191205 PRUNING SEALANT 8 oz

Recommended use of the chemical and restrictions on use

Product code F03617

Product Type Flammable Liquid and Vapor
Synonyms None

Supplier's details

Recommended Use Tree Pruning Sealer.
Uses advised against No information available

Manufactured For:
Tanglefoot Acquisitions, Inc.
314 Straight Ave. S.W.
Grand Rapids, MI 49504
Phone : (616) 459-4140

Manufacturer
American Jetway Corporation
34136 Myrtle Street
Wayne, MI 48184-0126
AMERICAN JETWAY 1-734-721-5930

Emergency telephone number
Chemical Emergency Phone Number CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES)

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight %* |
|------------------|------------|-----------|
| MINERAL SPIRITS | 8052-41-3 | 30-40 |
| ASPHALT | 8052-42-4 | 20-30 |
| POLYISOBUTYLENE | 9003-27-4 | 1-10 |
| NONANE | 111-84-2 | 1-10 |
| TRIMETHYLBENZENE | 25551-13-7 | 1-10 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures for different exposure routes**

| | |
|-----------------------|---|
| General advice | Avoid contact with eyes, skin, and clothing. Avoid breathing vapors. |
| Eye contact | Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing. If symptoms persist, call a physician. |
| Skin contact | If on skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. If skin irritation persists, call a physician. |
| Inhalation | Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately. |
| Ingestion | Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion. |

Most important symptoms/effects, acute and delayed

Main Symptoms May cause cancer. May cause damage to organs (Central Nervous System, Eyes, Kidney, Respiratory System, and Skin). May be fatal if swallowed and enters airways.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Water Fog, Carbon Dioxide (CO₂), Foam, Dry Chemical .

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition.

Explosion Data**Sensitivity to Mechanical Impact** none.**Sensitivity to Static Discharge** Yes.**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal precautions**

Use with adequate ventilation to keep the exposure levels below the OELS. Absorb with sand, clay, or other suitable material. Hard surfaces may be mopped with water. Material can create slippery conditions. Remove all sources of ignition. Use with adequate ventilation to keep the exposure levels below the occupational exposure limits. Avoid contact with skin, eye, and clothing. Avoid breathing vapors or mists. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces. Remove all sources of ignition.

Environmental precautions**Environmental precautions**

Vapors can accumulate in low areas. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Report spills as required by local and federal regulations.

Methods and materials for containment and cleaning up**Methods for Containment**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Cover liquid and collect with an inert non-combustible material. Soak up with inert absorbant material. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Contain liquid and collect with an inert, non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

Avoid contact with skin, eyes and clothing. Do not eat, drink, or smoke, when using this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up. Keep away from heat and sources of ignition.

Incompatible products

Strong acids, alkalis, oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---------------|-----------|----------|------------|
| | | | |

| | | | |
|--------------------------------|--|---|---|
| MINERAL SPIRITS 8052-41-3 | TWA: 100 ppm | TWA: 500 ppm TWA: 2900 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³ | IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min TWA: 350 mg/m ³ |
| ASPHALT 8052-42-4 | TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction | - | Ceiling: 5 mg/m ³ fume 15 min |
| TRIMETHYLBENZENE 25551-13-7 | TWA: 25 ppm | (vacated) TWA: 25 ppm (vacated) TWA: 125 mg/m ³ | - |

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Exposure controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Safety glasses with side-shields.
- Skin and body protection** Chemical resistant apron. Protective gloves.
- Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

| | | | |
|-----------------------|------------|-----------------------|---------|
| Physical state | Liquid | Odor | Solvent |
| Appearance | Opaque | Odor Threshold | |
| Color | Dark Brown | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Methods</u> |
|---|--------------------------|--|
| pH | No information available | not applicable |
| Melting/freezing point | No information available | |
| Boiling point/boiling range | | |
| Flash Point | -41 °C / -105 °F | Based on lowest flashpoint of the products constituents. |
| Evaporation rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limits in Air | | |
| upper flammability limit | | |
| lower flammability limit | | |
| Vapor pressure | | |
| Vapor density | | |
| Specific Gravity | 0.914 | |
| Water solubility | Negligible | |
| Partition coefficient: n-octanol/water | | |
| Autoignition temperature | No information available | |
| Decomposition temperature | | |
| Viscosity | No information available | |
| Explosive properties | | |

Other information

VOC Content(%) 0

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkalis, oxidizing agents.

Hazardous Decomposition Products

Carbon oxides , Hydrocarbons, Fumes.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

| | |
|---------------------|--|
| Inhalation | Avoid inhaling vapors or mists. May cause irritation to respiratory tract. |
| Eye contact | Eye irritation may occur if excessive exposure to product occurs. |
| Skin contact | Skin irritation may occur if person excessively exposes product to the skin. |
| Ingestion | May be fatal if swallowed and enters airways. |

Component Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------------|----------------------|-------------------------|------------------------|
| ASPHALT 8052-42-4 | > 5000 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| POLYISOBUTYLENE 9003-27-4 | >2000mg/kg (rat) | - | - |
| NONANE 111-84-2 | - | - | = 17.4 mg/L (Rat) 4 Hr |
| TRIMETHYLBENZENE 25551-13-7 | = 8970 mg/kg (Rat) | - | - |

Information on toxicological effects

Symptoms May cause cancer. May cause damage to organs (Central Nervous System, Eyes, Kidney, Respiratory System, and Skin). May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Under normal conditions there is no skin irritation. Excessive exposure of product with skin may cause skin irritation.

Eye damage/irritation Under normal conditions there is no eye irritation . Excessive conditions to product may cause eye irritation.

Sensitization Not a known sensitizer.

Germ Cell Mutagenicity Not a germ cell mutagen.
Carcinogenicity The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|----------|-----|------|
| ASPHALT 8052-42-4 | - | Group 2B | - | X |

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.
Specific target organ systemic toxicity (single exposure) May cause respiratory irritation. May cause drowsiness or dizziness.
Specific target organ systemic toxicity (repeated exposure) Causes damage to target organs listed below.
Chronic toxicity Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest.
Target Organ Effects Eyes, Skin, Kidneys, Respiratory System, Central Nervous System, Central Nervous System, Central Vascular System, Eyes, Liver, Lungs, Respiratory System, and Skin, Eyes, Skin, Respiratory System, Eyes, Lungs, Respiratory System, Central Nervous System, and Skin, Eyes, skin, kidneys, respiratory system, central nervous system, peripheral nervous system.
Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 4604 mg/kg

ATEmix (dermal) 3514 mg/kg

ATEmix (inhalation-gas) 84255 mg/l

ATEmix (inhalation-vapor) 458.1 mg/l

12. ECOLOGICAL INFORMATION

This product does not contain a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|--------------------------------|-------------------|---|----------------------------|---|
| TRIMETHYLBENZENE 25551-13-7 | - | 7.72 mg/L LC50 Pimephales promelas 96h flow-through | - | - |

Persistence and degradability

Bioaccumulation

| Chemical Name | log Pow |
|----------------------|---------|
| ASPHALT 8052-42-4 | >6 |

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

| | |
|-------------------------------|--|
| Waste Disposal Methods | This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of in accordance with federal, state, and local regulations. |
| Contaminated packaging | Do not re-use empty containers. |

14. TRANSPORT INFORMATION

| | |
|-------------------------|---|
| DOT Ground | Not restricted if shipped in containers <450L (119 USG). Restricted if shipped in containers > 450L (119 USG) UN1999,TARS,LIQUID ,3, PG III or LIMITED QUANTITY |
| Marine Pollutant | This product does not contain a chemical which is listed as a marine pollutant according to DOT. |
| IATA | UN1999,TARS,LIQUID ,3, PG III |
| IMDG | UN1999, TARS, LIQUID, 3, PG III |

15. REGULATORY INFORMATION

International Inventories

| Chemical Name | TSCA | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|------------------|------|----------|-------------------|------------|-------|------|-------|------|
| MINERAL SPIRITS | X | X | X | Not listed | X | X | X | X |
| ASPHALT | X | X | X | Not listed | X | X | X | X |
| POLYISOBUTYLENE | X | X | Not listed | X | X | X | X | X |
| TRIMETHYLBENZENE | X | X | X | X | X | X | X | X |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | Yes |
| Chronic Health Star Hazard | Yes |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | no |

Reactive Hazard

Yes

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--------------------------------|------------|---------------|--------------|
| MINERAL SPIRITS 8052-41-3 | X | X | X |
| ASPHALT 8052-42-4 | X | X | X |
| TRIMETHYLBENZENE 25551-13-7 | X | X | X |

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

| | | | | |
|-----------------------------------|-------------------------|--|--------------------------|--|
| NFPA | Health Hazard 2 | Flammability 4 | Instability 0 | Physical and chemical hazards - |
| HMIS | Health Hazard 2* | Flammability 4 | Physical Hazard 0 | Personal protection B |
| <i>Chronic Hazard Star Legend</i> | | <i>Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system damage</i> | | |

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Revision Note

Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet