

1. Farrier's Fix

Issue Date of Safety Data Sheet: January 23, 2016

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2. Identification Product Name: Farrier's Fix**Product Name: Farrier Barrier**

Synonyms: None

CAS Number: Gum Rosin (8050-09-7), Turpentine (9005-90-7), Mineral Oil (8042-47-5), Safflower Oil (8001-23-8), Cod Liver Oil (8001-69-2), Methyl Salicylate (119-36-8)

Product Use: Horse Treatment

Manufacturer/Supplier: Hawthorne Products Inc.

Address: 16828 N. State Road 167 N.
Dunkirk, Indiana 47336
USA

Telephone: +1 765-768-6585

Fax: +1 765-768-7672

Internet: hawthorne-products.com

Transportation Emergency Number: **CHEMTEL-**For: United States, Canada, Puerto Rico, and the US Virgin Island **1-800-255-3924**Outside United States, Canada, Puerto Rico and the US Virgin Island **-01-813-248-0585**ChemTel's in county phone numbers: China: **400-120-0751**, Brazil: **0-800-591-6042**,India: **000-800-100-4086** and Mexico: **01-800-099-0731**.**Collect calls are accepted.**

3. Hazards Identification**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):****Health**

Flammable liquids	Category 3, H226
Acute toxicity, Oral	Category 4, H302
Acute toxicity, Inhalation	Category 4, H332
Acute toxicity, Dermal	Category 4, H312
Skin irritation	Category 2, H315
Skin sensitization	Category 1, H317
Aspiration hazard	Category 1, H304
Eye irritation	Category 2A, H319

Acute aquatic toxicity Category 2, H401
Chronic aquatic toxicity Category 2, H411

For the full text of the H-Statements mentioned in this Section, see Section 17.

GHS Label elements, including precautionary statements:

Pictogram:



Signal word

Danger

Hazard Statement(s)

H226	Flammable liquid and vapor
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing, protective gloves, and eye/face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see supplemental first aid instructions on this label).
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391	Collect spillage
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None

4. Composition / Information on Ingredients

Component	CAS Number	EC Number	Weight %
Colophony Synonyms: Rosin Gum	8050-09-7	232-475-7	15-35
Cod Liver Oil	8001-69-2		20-30
Methyl Salicylate Formula: C ₈ H ₈ O ₃ Molecular weight: 152.15 g/mol Synonyms: 2-Hydroxybenzoic acid methyl ester, Oil of wintergreen, Wintergreen oil, Methyl 2-hydroxybenzoate	119-36-8	204-317-7	15-25
Safflower Oil	8001-23-8	232-276-5	10-20
Turpentine, Gum Synonyms: Fir oil, Pine oil, Oil of Turpentine	9005-90-7	232-350-7	5-10

Mineral Oil	8042-47-5	232-455-8	1-10
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(See Section 9 for Exposure Limits)

Hazardous components

Component	Classification
Colophony	Skin Sens. 1; H317
Turpentine oil	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 2; H226, H302 + H312 + H332, H304, H315, H317, H319, H411
Methyl Salicylate	Acute Tox. 4; Aquatic Acute 3; H302; H402

For the full text of the H-Statements mentioned in this Section, see Section 17.

5. First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Skin: Wash affected area thoroughly with soap and water, especially under fingernails and around cuticles. Consult a physician.

Inhalation: If affected, remove individual to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (See Section 3, Precautionary Statements) and/or Section 12.

Indication of any immediate medical attention and special treatment needed:
No data available.

In all cases be prepared to treat for shock.

6. Fire-fighting Measures

Suitable Extinguishing Media: Use water fog, alcohol-resistant foam, dry chemical, and/or carbon dioxide.

Fire Fighting Procedures: Do not flush down sewers or other drainage systems. Do not use high pressure water-jet.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Use water spray to cool unopened containers

7. Accidental Release Measures

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For personal protection, see Section 9.

8. Handling and Storage**Handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see Section 3.

Storage

Store in tightly closed containers in a dry and well-ventilated area. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Containers may be rinsed clean if the used rinse water is not discharged directly to the sewer or drain. After proper rinsing, empty containers may be disposed.

9. Exposure Controls / Personal Protection**Exposure Limits****Components with workplace control parameters**

Turpentine, Gum	CAS No. 9005-90-7		
		TWA:	20 ppm
Basis:	USA ACGIH Threshold Limit Value (TLV)		
		TWA:	560 mg/m ³
		TWA:	100 ppm
Basis:	USA – Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contamination		
		TWA:	100 ppm
		TWA:	560 mg/m ³
Basis:	USA – NIOSH Recommended Exposure Limits		
Remarks:	Central nervous system impairment, Upper Respiratory Tract irritation, Lung damage, Skin irritation, Sensitizer		

Mineral oil	CAS No. 8042-47-5		
		TWA:	5 mg/m ³
Basis:	USA ACGIH Threshold Limit Value (TLV)		
Remarks:	Upper Respiratory Tract irritation		
		TWA:	5 mg/m ³
		ST:	10 mg/m ³
Basis:	USA NIOSH Recommended Exposure Limits		
		TWA:	5 mg/m ³
Basis:	USA – Occupational Exposure Limits (OSHA) Table Z-1 Limits for Air Contamination		

Safflower oil Extractives	CAS No. 8001-23-8		
		TWA:	10 mg/m ³
Basis:	USA NIOSH Recommended Exposure Limits		

Engineering Controls:

Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment (PPE)

Eye Protection: Wear safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-wash stations available where eye contact can occur.

Skin Protection: Wear nitrile-rubber gloves that are impervious to conditions of use. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good industrial practices. Wash and dry hands.

Full contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 minutes

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact:

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 60 minutes

Material tested: Dermatril® P (KCL 740 / Aldrich Z677272, Size M)

Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

Should conditions differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by the consumer. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Use impervious clothing, flame retardant antistatic protective clothing.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

10. *Physical and Chemical Properties*

Room Temperature Appearance: colorless to yellow oil

Odor: Pungent

pH: Not available

Flashpoint: 68°C closed cup

Autoignition Temperature: No data available

Upper/lower Explosion Limits: Upper explosion limit: NA (V)

Lower explosion limit: NA (V)

Boiling Point: 224°C

Melting Point: Not available

Vapor Pressure: Not determined

Evaporation rate: No data available

Vapor Density: No data available

Specific Gravity: 0.95 – 1.00 @ 20°C

Molecular Formula: mixture

Molecular Weight: mixture

11. *Stability and Reactivity*

Stability: Stable under recommended storage conditions.

Incompatibility: Strong bases, and strong oxidizing agents

Conditions to avoid: Contact with incompatible materials.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Hazardous Reactions/Decomposition Products: In event of fire see section 6.

12. Toxicological Information**Acute Toxicity Values:****Turpentine:**

LD50 Oral – Rat – 5,760 mg/kg

LDLo (human) – 500 mg/kg

Inhalation: LCLo (human) – 175 ppm (irritant effects)

Dermal : No data available

Skin irritation – Rabbit – Irritating to skin (Draize Test)

Eye irritation No data available

Germ cell mutagenicity: in vitro assay – s. Typhimurium - negative

Additional Information:

RTECS: YO8400000

Prolonged or repeated exposure may cause: Nausea, Headache, Dizziness.

Possibility of Teratogenic Effects exists for pregnant women (AIHA Journal, 1976, 423-26)

Rosin Gum

LD50 Oral – Rat – male and female – 2,800 mg/kg

Inhalation: : No data available

LD50 Dermal – Rat – male and female - >2,000 mg/kg (OECD Test Guideline 402)

Skin irritation – Rabbit – No skin irritation – 4 h (OECD Test Guideline 404)

Eye irritation – Rabbit – No eye irritation - 4 h – (OECD Test guideline 405)

Germ cell mutagenicity: in vitro assay – s. Typhimurium - negative

Additional Information:

RTECS: VL0480000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Mineral oil

LD50 Oral – Rat – male and female – 5,000 mg/kg (OECD Test Guideline 401)

LC50 Inhalation - Rat – male and female – 4 h - >5 mg/L (OECD Test Guideline 403)

LD50 Dermal – Rabbit – male and female - >2,000 mg/kg (OECD Test Guideline 402)

Skin irritation – Rabbit – No skin irritation – 4 h (OECD Test Guideline 404)

Eye irritation – Rabbit – No eye irritation - 4 h – (OECD Test guideline 405)

Respiratory or skin sensitization – Buehler Test – guinea pig – did not cause sensitization (OECD Test Guideline 406)

Germ cell mutagenicity: in vitro assay – s. Typhimurium - negative

Additional Information:

RTECS: PY8047000

Repeated dose toxicity – Rat – female – Oral – No observed adverse effect level – 1,600 mg/kg – Lowest observed adverse effect level – 160 mg/kg

Aspiration may lead to: lipid pneumonia, Effects due to ingestion may include: laxative effect, Gastrointestinal disturbance, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Methyl Salicylate

LD50 Oral – Rat – male and female - 887 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal – rabbit = >5,000 mg/kg

Skin irritation – rabbit – mild skin irritation – 4 h

Eye irritation – Rabbit – No eye irritation – 72 h (OECD Test Guideline 405)

Respiratory or skin sensitization – Maximisation Test – guinea pig
Result: Does not cause skin sensitization (OECD Test Guideline 406)

Germ cell mutagenicity – Ames test – S. Typhimurium – Result: negative

Reproductive toxicity – Laboratory experiments have shown teratogenic effects.

Additional Information:
RTECS: VO4725000

Repeated dose toxicity – rat – male and female – Oral – No observed adverse effect level – 50 mg/kg

Mild chronic salicylate intoxication is termed salicylism. Symptoms include: headache, dizziness, ringing in the ears, difficulty in hearing, dimness of vision, mental confusion, lassitude, drowsiness, sweating, thirst, hyperventilation, nausea, vomiting, and occasionally diarrhea. A more severe degree of salicylate intoxication is characterized by more pronounced CNS disturbances (including generalized convulsions and coma), skin eruptions, and marked alterations in acid-base balance.

Stomach - Irregularities - Based on Human Evidence

Safflower

Skin irritation – Human – Mild skin irritation – 3 h

Eye irritation – Rabbit - Mild eye irritation – 24 h

Respiratory or skin sensitization - No data available

Germ cell mutagenicity - No data available

Additional Information:
RTECS: VN2230000

Carcinogenicity – Rat – Oral – Tumorigenic: Neoplastic by RTECS criteria.
Gastrointestinal: Tumors

Carcinogenicity:

IARC: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by ACGIH.

NTP: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by NTP.

OSHA: No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by OSHA.

13. Ecological Information:

Toxicity:

Exclusive to Rosin Gum:

Fish LC50 – static test – Danio rerio (zebrafish) – 60.3 mg/L – 96 h
(OECD Test guideline 203)

Exclusive to Turpentine:

Fish LC50 - static test – Danio rerio (zebrafish) – 29 mg/L – 96 h (OECD
Test guideline 203)

Exclusive to Mineral oil:

Fish LC50 - static test – Oncorhynchus mykiss (rainbow trout) – >100
mg/L – 96 h (OECD Test guideline 203)

Exclusive to Methyl Salicylate:

Fish LC50 - static test – Danio rerio (zebra fish) - >100 mg/L - 96 h
(OECD Test Guideline 203)

Algae EC50 – static test – Desmidesmus subspicatus (green algae) – 27
mg/L – 72 h (OECD Test Guideline 201)

Exclusive to Turpentine:

Toxicity to daphnia EC50 – Daphnia magna (Water flea) – 6.4 mg/L – 48 h
and other aquatic (OECD Test Guideline 202)
invertebrates

Exclusive to Mineral oil:

Toxicity to daphnia EC50 – Daphnia magna (Water flea) – >100 mg/L – 48 h
and other aquatic (OECD Test Guideline 202)
invertebrates

Persistence and degradability:

Exclusive to Rosin Gum:

Biodegradability - aerobic - Exposure time 28 d

Result: 58 % - Not readily biodegradable (OECD Test Guideline 301B)

Exclusive to Turpentine:

Biodegradability aerobic - Exposure time 28 d

Result: 71.7 % - Readily biodegradable (OECD Test Guideline 301F)

Remarks: The 10 day time window criterion is not fulfilled.

Exclusive to Methyl Salicylate:

Biodegradability – aerobic – Exposure time 28 d

Result: 98.4 % - Readily biodegradable (OECD Test Guideline 301B)

14. Disposal Considerations**Waste treatment methods****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging

The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture, or weld on or near this container. Since the emptied containers retain product residue, follow label warnings even after container is emptied.

15. Transport Information

Not classified as hazardous for transport.

16. Regulatory Information**Code letter and hazard designation of product:**

Aquatic toxicity



Hazard



Flammable



Health Hazard

U.S. Federal Regulations

SARA 302 Components: No chemicals in the product are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

No chemicals in the product are subject to the reporting requirements of SARA Title III, Section 313

SARA 311/312 Hazards:

Rosin Gum	Acute Health Hazard
Turpentine	Acute Health Hazard, Fire Hazard

State Regulations

Massachusetts Right to Know Components:

	CAS-No.	Revision Date
Turpentine oil	8006-64-2	1993-04-24

Pennsylvania Right to Know Components:

	CAS-No.	Revision Date
Turpentine oil	8006-64-2	1993-04-24
Colophony	8050-09-7	
Mineral oil	8042-47-5	
Methyl salicylate	119-36-8	1989-08-11
Safflower oil Extractives	8001-23-8	1989-08-11

New Jersey Right to Know Components:

	CAS-No.	Revision Date
Turpentine oil	8006-64-2	1993-04-24
Colophony	8050-09-7	
Mineral oil	8042-47-5	
Methyl salicylate	119-36-8	1989-08-11
Safflower oil Extractives	8001-23-8	1989-08-11

California Prop. 65 Components:

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS): The following chemicals are included in the WHMIS.

Name	CAS-No.
Turpentine oil	8006-64-2

17. Other Information**Full text of H-Statements referred to under sections 3 and 4.**

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability	2
Physical Hazard	0

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Health:	2
Flammability:	2
Reactivity:	0

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