SAFETY DATA SHEETS

This SDS packet was issued with item:

078924419

N/A



According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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Thrushtox® (Copper Naphthenate)

SECTION 1: Identification

Product Identifier

Product Name: Thrushtox® (Copper Naphthenate)

Product code: 18781727

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Thrush Treatment

Uses Advised Against: Not determined or not applicable.

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Supplier:

United States

Aspen Veterinary Resources, LTD. 3155 W. Heartland Drive Liberty, MO 64068 1-800-792-1238

Emergency Telephone Number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)
Outside USA and Canada: +1-703-527-3887 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Flammable liquids, category 3
Skin irritation, category 2
Eye irritation, category 2A
Skin sensitization, category 1
Specific target organ toxicity - repeated exposure, category 1
Aspiration hazard, category 1

Label elements

Hazard Pictograms:







Signal Word: Danger

Hazard statements:

H226 Flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

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H317 May cause an allergic skin reaction

H372 Causes damage to organs through prolonged or repeated exposure

H304 May be fatal if swallowed and enters airways

Precautionary Statements:

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

P280 Wear protective gloves/protective clothing/eye protection/face protection

P264 Wash hands thoroughly after handling

P272 Contaminated work clothing must not be allowed out of the workplace

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P270 Do not eat, drink or smoke when using this product

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P370+P378 In case of fire: Use agents recommended in section 5 to extinguish

P302+P352 IF ON SKIN: Wash with plenty of water

P321 Specific treatment (see supplemental first aid instructions on this label)

P332+P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash it before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P363 Wash contaminated clothing before reuse

P314 Get medical advice/attention if you feel unwell

P331 Do NOT induce vomiting

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor

P403+P235 Store in a well-ventilated place. Keep cool

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 8052-41-3	Mineral Spirits	>50
CAS Number: 64742-47-8	Distillates (petroleum), hydrotreated light	5-10
CAS Number: 1338-02-9	Naphthenic acids, copper salts	2-5
CAS Number: 1338-24-5	Naphthenic acids	1-5

Additional Information: None

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SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

After Swallowing:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed Acute Symptoms and Effects:

Product is flammable. Exposure to sources of ignition may cause physical injury.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat.

Delayed Symptoms and Effects:

Causes damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of pulmonary edema may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Skin/eye burns require immediate treatment.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Dry chemical, CO2, water spray or alcohol-resistant foam.

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Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Flammable liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges.

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Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Naphthenic acids, copper salts	1338-02-9	REL: 0.1 mg/m³ (10-hour workday; Cu fume)
	Naphthenic acids, copper salts	1338-02-9	IDLH: 100 mg/m³
	Mineral Spirits	8052-41-3	Ceiling Limit: 1800 mg/m³ (15-min)
	Mineral Spirits	8052-41-3	IDLH: 20000 mg/m³
	Mineral Spirits	8052-41-3	REL: 350 mg/m³
	Distillates (petroleum), hydrotreated light	64742-47-8	REL-TWA: 100 mg/m³ (Kerosene)
ACGIH	Naphthenic acids, copper salts	1338-02-9	8-Hour TWA: 0.2 mg/m³ (Cu fume)
	Naphthenic acids, copper salts	1338-02-9	8-Hour TWA: 1 mg/m³ (Cu dusts and mists)
	Mineral Spirits	8052-41-3	8-Hour TWA: 100 ppm
	Distillates (petroleum), hydrotreated light	64742-47-8	8-Hour TWA: 200 mg/m³ (Kerosene and jet fuels [non-aerosol], as total hydrocarbon vapor)
United States(California)	Naphthenic acids, copper salts	1338-02-9	REL: 100 ug/m³ (Cu and compounds)
	Mineral Spirits	8052-41-3	8-Hour TWA: 100 ppm
	Mineral Spirits	8052-41-3	8-Hour TWA: 525 mg/m ³
OSHA	Mineral Spirits	8052-41-3	PEL: 525 mg/m³
	Mineral Spirits	8052-41-3	PEL: 100 ppm

Biological Limit Values:

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

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by

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recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Γ-	I
Appearance	Green liquid
Odor	Paint thinner-type odor
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	111°F (44°C)
Evaporation rate	Slower than ether
Flammability (solid, gas)	Flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Heavier than air
Density	Not determined or not available.
Relative density	0.8775
Solubilities	Not miscible in water
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

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Other Information

Weight per gallon	7.3 lbs/gal (3.3 kg/gal)
VOC (g/l / Lb/gal)	6.9 lbs/gal - 7.2 lbs/gal (826.8 g/L - 862.8 g/L)

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible Materials:

Strong reducing agents and excessive heat.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Naphthenic acids, copper salts	oral	LD50 Rat: 300 - 500 mg/kg
	dermal	LD50 Rabbit: >3160 mg/kg
Mineral Spirits	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: > 5.5 mg/L (4 h)
	dermal	LD50 Rabbit: >3000 mg/kg
Distillates (petroleum),	oral	LD50 Rat: >5000 mg/kg
hydrotreated light	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >5.28 mg/L (4h Vapor)
Naphthenic acids	oral	LD50 Rat: 3000 mg/kg
	dermal	LD50 Rabbit: >3160 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Mineral Spirits	Causes skin irritation.
Naphthenic acids	Causes skin irritation.

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Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Mineral Spirits	Causes serious eye irritation.
Naphthenic acids	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
Naphthenic acids	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

Causes damage to organs through prolonged or repeated exposure.

Product Data:

No data available.

Substance Data:

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Name	Result
· ·	Causes damage to the Central Nervous System through prolonged or repeated exposure via inhalation.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

Product Data:No data available.

Substance Data:

Name	Result
Mineral Spirits	May be fatal if swallowed and enters airways.
Distillates (petroleum), hydrotreated light	May be fatal if swallowed and enters airways.

Information on Likely Routes of Exposure:

Oral, skin and eye contact, inhalation.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

See section 4 of this SDS.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment:

This product is toxic to aquatic life. **Product Data:** No data available.

Substance Data:

Name	Result
Mineral Spirits	Fish LC50 Oncorhynchus mykiss: 0.14 mg/L (96 hours)
Distillates (petroleum),	Fish LC50 Pimephales promelas: 41 - 45 mg/L (96 H)
hydrotreated light	Fish LC50 Oncorhynchus mykiss: 2.34 - 9.22 mg/L (96 H)
	Aquatic Invertebrates EC50 Daphnia Magna: 170 - 226 mg/L (24 H)
	Aquatic Plants EC50 Selenastrum capricornutum (Algae): 19 - 56 mg/L (72 H)
Naphthenic acids	Fish LC50 Pimephales promelas: 5.62 mg/L (96 h)
	Aquatic Invertebrates LC50 Daphnia magna: 20 mg/L (48 h)

Chronic (Long-Term) Toxicity

Assessment:

This product is toxic to aquatic life with long lasting effects.

Product Data: No data available.

Substance Data:

Name	Result
Mineral Spirits	Fish NOEC Oncorhynchus mykiss: 0.02 mg/L (30 d)
Naphthenic acids	Aquatic Invertebrates NOEC Daphnia magna: >4.1 mg/L (21 d)

Persistence and Degradability

Product Data: No data available.

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Substance Data:

Name	Result	
Mineral Spirits	Readily biodegradable.	
Naphthenic acids	Naphthenic salts are readily biodegradable (60% degradation in 10 days).	

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result	
Mineral Spirits	BCF: 39.66 L/Kg ww; Not considered to be bioaccumulative.	
Naphthenic acids	The substance is not expected to bioaccumulate (BCF: 27 L/Kg ww).	

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Mineral Spirits	Koc at 20°C: 1451

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Mineral Spirits	The substance is not PBT.
	This substance is a UVCB and does not contain constituents included in the SVHC candidate list as PBT at concentrations above 0.1%.
Naphthenic acids	The substance is not PBT.

vPvB assessment:

Mineral Spirits	The substance is not vPvB.
	This substance is a UVCB and does not contain constituents included in the SVHC candidate list as vPvB at concentrations above 0.1%.
Naphthenic acids	The substance is not vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	1993
UN Proper Shipping Name	Flammable liquid, n.o.s. (Naphthenic acids, copper salts)

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UN Transport Hazard Class(es)	3	
Packing Group	III	
Environmental Hazards	Marine Pollutant (Mineral Spirits, Naphthenic acids, copper salts)	
Special Precautions for User	None	
Passenger Air/Rail	60 L	
Cargo Aircraft Only	220 L	
Stowage Category	A	

International Maritime Dangerous Goods (IMDG)

UN Number	1993	
UN Proper Shipping Name	Flammable liquids, n.o.s. (Naphthenic acids, copper salts)	
UN Transport Hazard Class(es)	3	
Packing Group	III	
Environmental Hazards	Marine Pollutant (Mineral Spirits, Naphthenic acids, copper salts)	
Special Precautions for User	None	
EmS Number	F-E, S-E	
Stowage Category	A	
Excepted Quantities	E1	
Limited Quantity	5 L	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	1993	
UN Proper Shipping Name	Flammable liquid, n.o.s. (Naphthenic acids, copper salts)	
UN Transport Hazard Class(es)	3	
Packing Group	III	
Environmental Hazards	Marine Pollutant (Mineral Spirits, Naphthenic acids, copper salts)	
Special Precautions for User	None	
ERG Code	3L	
Excepted Quantities	E1	
Passenger and Cargo	60 L	
Cargo Aircraft Only	220 L	
Limited Quantity	10 L	

SECTION 15: Regulatory Information

United States Regulations

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Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed. **Export Notification under TSCA Section 12(b):** None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA:

1338-24-5	Naphthenic acids	Listed	100 lb

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

<u> </u>		
8052-41-3	Mineral Spirits	Listed
64742-47-8	Distillates (petroleum), hydrotreated light	Listed
1338-24-5	Naphthenic acids	Listed

New Jersey Right to Know:

<u> </u>		
1338-02-9	Naphthenic acids, copper salts	Listed
8052-41-3	Mineral Spirits	Listed
64742-47-8	Distillates (petroleum), hydrotreated light	Listed
1338-24-5	Naphthenic acids	Listed

New York Right to Know:

1338-02-9	Naphthenic acids, copper salts	Listed
8052-41-3	Mineral Spirits	Listed
64742-47-8	Distillates (petroleum), hydrotreated light	Listed
1338-24-5	Naphthenic acids	Listed

Pennsylvania Right to Know:

1338-02-9	Naphthenic acids, copper salts	Listed
8052-41-3	Mineral Spirits	Listed
64742-47-8	Distillates (petroleum), hydrotreated light	Listed
1338-24-5	Naphthenic acids	Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-2-0 **HMIS:** 3*-2-0

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Revision Date Notes		
	Revision 2. Product has been reclassified to include the following hazards: Skin Irritation Category 2, Eye Irritation Cat 2A and STOT RE Category 1.	

End of Safety Data Sheet