

Safety Data Sheet
Liquid TPO® BIO Stain Blocker

SECTION 1: Identification

Product identifier

Product name Liquid TPO® BIO Stain Blocker
Product number 7891470
Brand Liquid TPO®

Recommended use of the chemical and restrictions on use

Roof repair and/or reflective coating.

Supplier's details

Name Ace Roof Coatings, Inc.
Address 4821 Grisham Drive
Rowlett, TX 75088
United States
Telephone 972-864-0240
Fax 469-366-9219
email info@arcroofcoat.com

Emergency phone number(s)

INFOTRAC - 800-535-5053
OUTSIDE UNITED STATES CALL COLLECT 1-352-323-3500

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Flammable liquids (chapter 2.6), Cat. 2
- Toxic to reproduction (chapter 3.7), Cat. 2
- Aspiration hazard (chapter 3.10), Cat. 1
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H335 May cause respiratory irritation

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H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. 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.
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 ... to extinguish.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container to ...
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P314	Get medical advice/attention if you feel unwell.
P264	Wash ... thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P321	Specific treatment (see ... on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P273	Avoid release to the environment.
P391	Collect spillage.

Other hazards which do not result in classification

No data available.

Statement regarding ingredients of unknown toxicity (OSHA)

Not applicable.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Component 1 (trade secret)

Concentration 5 - 10 % (Weight)

2. Calcium carbonate

Concentration 7 - 14 % (Weight)

CAS no. 471-34-1

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3. Component 3 (trade secret)

Concentration 10 - 15 % (Weight)

4. Silicates (less than 1% crystalline silica), Mica (respirable dust)

Concentration 10 - 15 % (Weight)

CAS no. 12001-26-2

5. Component 5 (trade secret)

Concentration 15 - 20 % (Weight)

6. Solvent naphtha (petroleum), light arom

Concentration 13 - 18 % (Weight)

CAS no. 64742-95-6

7. N-HEXANE

Concentration 10 - 20 % (Weight)

EC no. 203-777-6

CAS no. 110-54-3

Index no. 601-037-00-0

- Flammable liquids (chapter 2.6), Cat. 2

- Toxic to reproduction (chapter 3.7), Cat. 2

- Aspiration hazard (chapter 3.10), Cat. 1

- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2

- Skin corrosion/irritation (chapter 3.2), Cat. 2

- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

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H225 Highly flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

H361f Suspected of damaging fertility

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

8. Component 8 (trade secret)

Concentration 8 - 14 % (Weight)

Trade secret statement (OSHA 1910.1200(i))

Specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice IMMEDIATELY. (Show the product label where possible)
If inhaled	Remove victim from exposure to well-ventilated area. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing. Call a Physician.
In case of skin contact	Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.
In case of eye contact	Immediately flush eyes running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

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If swallowed

Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. Refer person to medical personnel for immediate attention.

Personal protective equipment for first-aid responders
None.

Most important symptoms/effects, acute and delayed

No data available.

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

No data available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use foam, fog, dry chemical CO₂, or water.

Specific hazards arising from the chemical

Carbon oxides

Special protective actions for fire-fighters

As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. No unusual fire or explosion hazards.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate area.

Environmental precautions

In case of large spill, dike the area to prevent this material from entering water systems or sewers.

Methods and materials for containment and cleaning up

Absorb spill with an absorbent material such as sawdust, vermiculite or sand, and place in a closed container.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid open flames, electrical sparks or static electricity.

Conditions for safe storage, including any incompatibilities

Keep containers properly sealed and when stored indoors, in a well-ventilated area. Avoid storage above 110 °F

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

Control parameters

1. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): 15 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

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2. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

3. Titanium dioxide - Total dust (CAS: 13463-67-7)

REL (Inhalation): Ca, (ultrafine particles), 2.4 mg/m³ (ultrafine), 0.3 mg/m³ (ultrafine), See Appendix A, See Appendix C (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

4. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

5. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 435 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

PEL (Inhalation): 100 ppm, (ST) 150 ppm, (C) 300 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

7. Xylenes (o-, m-, p-isomers) (CAS: 1330-20-7)

REL (Inhalation): 100 ppm, (ST) 150 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 100 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

9. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 435 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

10. Ethyl benzene (CAS: 100-41-4)

PEL (Inhalation): 100 ppm, (ST) 125 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

11. Ethyl benzene (CAS: 100-41-4)

REL (Inhalation): 100 ppm, (ST) 125 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

12. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

13. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

14. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

15. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

REL (Inhalation): See Annotated Z-3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

16. n-Hexane (CAS: 110-54-3)

PEL (Inhalation): 500 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

17. n-Hexane (CAS: 110-54-3)

PEL (Inhalation): 1800 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

18. n-Hexane (CAS: 110-54-3)

PEL (Inhalation): 50 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

19. n-Hexane (CAS: 110-54-3)

REL (Inhalation): 50 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

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Appropriate engineering controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released. For guidance on engineering control measures refer to publications such as the ACGIH current edition of "Industrial Ventilation, a manual of Recommended Practice."

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical splash goggles in compliance with OSHA regulations are advised. However, OSHA regulations also permit other types of safety glasses. (Consult your safety equipment supplier)

Skin protection

Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH. Eye wash station and safety shower should be available.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

This product has demonstrated no observable effects at room temperature; however, it is highly recommended that an air-purifying respirator with organic filter cartridges be worn. In addition, in any interior, confined space, spray application, a supplied air source must be provided. When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a Hepa (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance with the OSHA preparatory protection standard (29 CFR. 1910.134).

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Viscous liquid
Odor	Solvent odor
Odor threshold	No data available.
pH	8.5 – 9.0
Melting point/freezing point	No data
Initial boiling point and boiling range	313°F - 572°F (156°C - 300°C)
Flash point	114°F
Evaporation rate	.36
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data
Upper/lower explosive limits	0.5% / 6.0%
Vapor pressure	2.9
Vapor density	Heavier than air
Relative density	No data
Solubility(ies)	Insoluble in water
Partition coefficient: n-octanol/water	No data
Auto-ignition temperature	No data

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Decomposition temperature	No data
Viscosity	3,000 - 5,000 cps
Explosive properties	No data
Oxidizing properties	No data

Other safety information

No data available.

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

Avoid storage above 110°F.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

By fire: Carbon Dioxide, Carbon Monoxide

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No information available.

Skin corrosion/irritation

Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use

Serious eye damage/irritation

Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Respiratory or skin sensitization

Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may cause overexposure symptoms, such as headache, nausea, and irritation of nose and throat.

Carcinogenicity

The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSDHA, and not listed as carcinogens by NTP.

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SECTION 12: Ecological information

Toxicity

No data available

SECTION 13: Disposal considerations

Disposal of the product

Liquid waste must be disposed of in accordance with Federal, State and local regulations. Incineration is the preferred method.

Disposal of contaminated packaging

Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

Waste treatment

This product, as supplied, is regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. If discarded in its purchased form, this product is a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or residue of the product remains classified a hazardous waste as per 40 CFR 261, Subpart C. State or local regulations may also apply if they differ from the federal regulation.

Sewage disposal

Chemical waste, even small quantities should never be poured down drains, sewers or waterways.

Other disposal recommendations

RCRA HAZARD CLASS: D001, Ignitable Hazardous Waste

SECTION 14: Transport information

DOT (US)

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Toxic Substances Control Act (TSCA) Inventory

This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders. One or more of the components may be exempt from listing on the TSCA Inventory.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard, Fire Hazard

Massachusetts Right To Know Components

Chemical name: Aluminum (fume or dust)

CAS number: 7429-90-5

New Jersey Right To Know Components

Common name: ALUMINUM

CAS number: 7429-90-5

Pennsylvania Right To Know Components

Chemical name: Aluminum

CAS number: 7429-90-5

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Massachusetts Right To Know Components

Chemical name: Hexane
CAS number: 110-54-3

New Jersey Right To Know Components

Common name: n-HEXANE
CAS number: 110-54-3

Pennsylvania Right To Know Components

Chemical name: Hexane
CAS number: 110-54-3

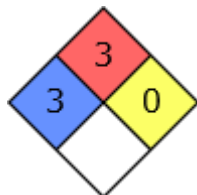
Chemical Safety Assessment

No data available.

HMIS Rating

Liquid TPO BIO Stain Blocker	
HEALTH	3
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.

Preparation information

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