

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

1.1. Product identifier

Product form : Substance
Substance name : Permatan 2000

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

1.3. Details of the supplier of the safety data sheet

TRUBOND TANNING PRODUCTS, LLC
328 SHORECREST DR.
SENECA, SC, USA, 29672
PH: 989-600-0869

1.4. Emergency telephone number

Emergency number (Chemtrec account 4657) : 1-800-424-9300 (+) 1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox 1 A : Causes severe eye damage
Acute Tox 4: Harmful if swallowed
Acute Tox 4: Harmful if contact with skin

2.2. Label elements

GHS-US labeling



Hazard Statements

H302 Harmful if swallowed
H312 Harmful in contact with skin
H318 Causes severe eye damage
Dust is irritating to respiratory system
Irritating to eyes and skin

Signal word: Warning

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe vapors, mist
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash ... thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P284 - [In case of inadequate ventilation] wear respiratory protection
P301+P310 - If swallowed: Immediately call a poison center/doctor/...
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P302+P352 - If on skin: Wash with plenty of water/...
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
Aluminum Sulfate Hydrate	17927-65-0	100.0	Eye and skin irritant, may cause eye damage

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist.
First-aid measures after skin contact	: Wash with water and soap.
First-aid measures after eye contact	: Rinse immediately with plenty of water for an extended period. Seek medical attention if symptoms persist. Untraeted exposure may result in eye damage.
First-aid measures after ingestion	: Obtain emergency medical attention. DO NOT INDUCE VOMITING

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory irritation. Avoid breathing dust.
Symptoms/injuries after skin contact	: May cause irritation / damage
Symptoms/injuries after eye contact	: Causes severe eye irritation / damage.
Symptoms/injuries after ingestion	: Spontaneous vomiting may occur.
Chronic symptoms	: No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No data available on direct fire hazard.
Explosion hazard	: No data available on direct explosion hazard.
Reactivity	: Upon combustion: CO and CO2 are formed. At extremely high temperatures (> 650° C / 1202° F) oxides of sulfur fume wil develop

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Oxides of Carbon, Sulfur Oxide and Aluminum Oxides will be generated as the result of thermal decomposition..

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective clothing. Safety glasses.
Emergency procedures	: Keep containers closed. Prevent dust cloud formation, e.g. by wetting. Wash contaminated clothes.

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6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the solid spill.
Methods for cleaning up : Wash down leftovers with plenty of water. Scoop solid spill into closing containers. Product can be neutralized and converted to Aluminum Hydroxide using a mild alkali such as lime or soda ash

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Incompatible products : None known
Storage area : Store in a dry area. Exposure to excessive moisture will harden product.
Special rules on packaging : Watertight to protect product.
Packaging materials : No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OSHA: TWA 2 mg/m³ as Al
ACGIH: TWA 2 mg/m³ as Al

8.2. Exposure controls

Personal protective equipment : Safety glasses. Protective clothing. Gloves.



Hand protection : Gloves.
Eye protection : Safety glasses.
Skin and body protection : Apron or chemically resistant clothing should be worn.
Respiratory protection : Respiratory protection not required in normal conditions. Use approved respiratory protection when conditions require use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid (granular and powder)
Appearance : White solid.
Color : White.
Odor : No data available
Odor threshold : No data available
pH : 2.2 – 2.5 (saturated solution)
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : +/- 145⁰ C
Freezing point : No data available

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Boiling point	: No data available
Flash point	: Product will not burn
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Partially soluble in water. (50 % at 230° F)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion: CO and CO₂, also Aluminum and Sulfur oxides are formed.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Very high temperatures will decompose product. See section 5

10.5. Incompatible materials

Avoid contact with bleach, chlorites, sulfites, strong bases and Aqua Ammonia (Exothermic reactions)

10.6. Hazardous decomposition products

Thermal decomposition of dried product can release irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Permatan 2000	
LD ₅₀ oral rat	>2000 mg/kg as Aluminum
LD ₅₀ Demal	>2000 mg/kg as Aluminum
LC ₅₀ Inhalation, rat	>5.6 mg/l as Aluminum

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

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Symptoms/injuries after skin contact	: May cause irritation / damage
Symptoms/injuries after eye contact	: Will cause irritation, left untreated it can causes severe eye damage.
Symptoms/injuries after ingestion	: May cause vomiting, pain and discomfort to mouth, throat and stomach
Chronic symptoms	: No effects known.

SECTION 12: Ecological information

12.1. Toxicity

LC₅₀ 96 hr Danio rerio guideline 203 >1000 mg/l as AI EC50 water flea, semi static test guideline 202 . 98 mg/l as AI

12.2. Persistence and degradability

Not applicable to inorganic substances

12.3. Bioaccumulative potential

No additional information available but not expected to bioaccumulate

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : No data available. Follow all local, state and federal regulations for disposal of product and residue in containers.

SECTION 14: Transport information

In accordance with DOT: UN 3077, Class 9, III but not regulated in single packages of less than 5000 pounds.

Not dangerous good in sense of transport regulations

Additional information

Other information : No supplementary information available.

DOT

Not regulated :

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA: 311 / 312: Acute

CERCLA RQ: 5,000 pounds

15.2. International regulations

CANADA

WHMIS: E Corrosive

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No Data available

Classification according to Directive 67/548/EEC or 1999/45/EC

No data available

15.2.2. National regulations

No additional information available

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15.3. US State regulations

No additional information available

SECTION 16: Other information

HMIS III Rating

Health	: 2 Moderate hazard
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: C

SDS US (GHS HazCom 2012)

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