

# SAFETY DATA SHEET

Surrounding You with Exceptional Protection

Issue Date 24-Feb-2016 Revision Date 22-Mar-2023 Version 2

## 1. IDENTIFICATION

Product identifier

Product Name TL-220-S Resin

Other means of identification

Product Code 472B5 UN/ID no UN1263 Synonyms None

Recommended use of the chemical and restrictions on use
Recommended Use Industrial Coatings
Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address BLOME INTERNATIONAL 1450 Hoff Industrial Drive O'Fallon, MO 63366

Emergency telephone number

Company Phone Number 636-379-9119

Emergency Telephone CHEMTREC: 800-424-9300

CHEMTREC: 703-527-3887 CANUTEC: 613-966-6666

## 2. HAZARDS IDENTIFICATION

### Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

## **Label elements**

**Emergency Overview** 

### **Danger**

### **Hazard statements**

Harmful if swallowed Harmful if inhaled Causes skin irritation Causes serious eye irritation Suspected of causing cancer

Suspected of causing cancer

Suspected of damaging fertility or the unborn child May cause respiratory irritation. May cause drowsiness or dizziness Causes damage to organs through prolonged or repeated exposure Flammable liquid and vapor



Appearance viscous Physical state liquid Odor Strong Aromatic

## **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Use explosion-proof electrical/ ventilating / lighting/ mixing / equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Keep cool

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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

If skin irritation occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

In case of fire: Use CO2, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

### **Unknown acute toxicity**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### Mixture

Chemical Name	CAS No	Weight-%
Vinyl Ester Resin (non-hazardous) *	Proprietary	30 - 60
Styrene *	100-42-5	10 - 30
Mica *	12001-26-2	10 - 30
Titanium dioxide *	13463-67-7	3 - 7
Barium sulfate *	7727-43-7	3 - 7

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### **Description of first aid measures**

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician.

**Inhalation** Remove to fresh air. Call a physician. If breathing is irregular or stopped, administer

artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth

resuscitation. If symptoms persist, call a physician.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without

medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.

**Self-protection of the first aider** Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin

irritation. Drowsiness. Dizziness.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

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

### Specific hazards arising from the chemical

Flammable. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2).

**Explosion data** 

Sensitivity to Mechanical Impact None.

**Sensitivity to Static Discharge** May be ignited by heat, sparks or flames.

## 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. Burning produces heavy smoke. Avoid runoff to waterways and sewers.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled

containers.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Use with local exhaust ventilation. Use personal protective

equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away

from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and

static electricity). Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL/IDLH
Styrene	STEL: 20 ppm	TWA: 100 ppm	IDLH: 700 ppm
100-42-5	TWA: 10 ppm	Ceiling: 200 ppm	TWA: 50 ppm
			TWA: 215 mg/m <sup>3</sup>
			STEL: 100 ppm
			STEL: 425 mg/m <sup>3</sup>
Mica	TWA: 3 mg/m³ respirable	TWA: 20 mppcf <1% Crystalline	IDLH: 1500 mg/m <sup>3</sup>
12001-26-2	particulate matter	silica	TWA: 3 mg/m³ containing <1%
			Quartz respirable dust
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		_	TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine
			TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine,
			including engineered nanoscale
Barium sulfate	TWA: 5 mg/m³ inhalable particulate	TWA: 15 mg/m³ total dust	TWA: 10 mg/m <sup>3</sup> total dust
7727-43-7	matter, particulate matter containing	TWA: 5 mg/m³ respirable fraction	TWA: 5 mg/m³ respirable dust

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no asbestos and <1% crystalline silica

NIOSH REL/IDLH Recommended Exposure Limit/Immediately Dangerous to Life or Health

### **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

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

@ 40 °C

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. When using do not

eat, drink or smoke. Regular cleaning of equipment, work area and clothing is

recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state liquid

AppearanceviscousOdorStrong Aromatic

Color pigmented Odor threshold <1 ppm

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Melting point / freezing pointNo information availableBoiling point / boiling range115 °C / 239 °F

Flash point 27 °C / 80 °F Pensky-Martens Closed Cup (PMCC)

Evaporation rate 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: 1.1%
Lower flammability limit: 6.6%
Vapor pressure 0.57 kPa

Vapor pressure 0.57 kPa @ 20 °C

Vapor density >1 Relative density 1.3

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Kinematic viscosity > 1000 mm2/s

**Dynamic viscosity**No information available

**Explosive properties**Not an explosive **Oxidizing properties**Not applicable

**Other Information** 

Softening point
Molecular weight
VOC Content (%)
Density

No information available
No information available
No information available
No information available

Bulk density No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### Chemical stability

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous polymerization Hazardous polymerization may occur.

#### Conditions to avoid

Heat, flames and sparks.

### **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

Inhalation Irritating to respiratory system. May cause drowsiness or dizziness. Harmful by inhalation.

**Eye contact** Irritating to eyes.

**Skin contact** Irritating to skin.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Styrene 100-42-5	= 1000 mg/kg (Rat)	-	= 11.7 mg/L (Rat) 4 h
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Barium sulfate 7727-43-7	= 307000 mg/kg ( Rat )	-	-

### Information on toxicological effects

Symptoms Vapors may cause drowsiness and dizziness. Coughing and/ or wheezing. May cause skin

irritation. May cause redness and tearing of the eyes.

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

**Sensitization**Based on available data, the classification criteria are not met. **Germ cell mutagenicity**Based on available data, the classification criteria are not met.

Carcinogenicity

This product contains titanium dioxide which is classified as a possible carcinogen when

present as respirable dust. This is not relevant for this product since it is a liquid. The table below indicates whether each agency has listed any ingredient as a carcinogen.

 Chemical Name
 ACGIH
 IARC
 NTP
 OSHA

 Styrene
 A3
 Group 2A
 Reasonably Anticipated
 X

 100-42-5
 Titanium dioxide
 Group 2B
 X

 13463-67-7
 X
 X
 X
 X

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

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OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard.

**STOT - single exposure** Respiratory system. Central nervous system.

**STOT - repeated exposure**Based on available data, the classification criteria are not met.

Chronic toxicity Avoid repeated exposure. May cause adverse liver effects. Contains a known or suspected

reproductive toxin.

Target Organ Effects Central nervous system, Eyes, liver, lungs, Reproductive System, Respiratory system, Skin.

**Aspiration hazard**Based on available data, the classification criteria are not met.

### Numerical measures of toxicity - Product Information

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

ATEmix (oral) 1,139.00 mg/kg ATEmix (inhalation-dust/mist) 1.95 mg/l

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Styrene	1.4: 72 h Pseudokirchneriella	3.24 - 4.99: 96 h Pimephales	3.3 - 7.4: 48 h Daphnia magna mg/L
100-42-5	100-42-5 subcapitata mg/L EC50 0.15 - 3.2: p		EC50
96 h Pseudokirchneriella		58.75 - 95.32: 96 h Poecilia	
	subcapitata mg/L EC50 static 0.46 -	reticulata mg/L LC50 static 19.03 -	
4.3: 72 h Pseudokirchneriella		33.53: 96 h Lepomis macrochirus	
subcapitata mg/L EC50 static 0.72:		mg/L LC50 static 6.75 - 14.5: 96 h	
96 h Pseudokirchneriella		Pimephales promelas mg/L LC50	
	subcapitata mg/L EC50	static	

#### Persistence and degradability

No information available.

### **Bioaccumulation**

Chemical Name	Partition coefficient	
Styrene 100-42-5	2.95	
100-42-5		

#### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes**This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**Contaminated packaging** Do not reuse container.

US EPA Waste Number D001

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Styrene	Toxic
100-42-5	Ignitable

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### 14. TRANSPORT INFORMATION

DOT

VN/ID no UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III

Special Provisions B1, B52, IB3, T2, TP1, TP29

**Description** UN1263, Paint, 3, III

Emergency Response Guide 128

Number

**TDG** 

UN/ID no UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III

**Description** UN1263, Paint, 3, III

IATA

UN/ID no UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group III
ERG Code 3L

Special Provisions A3, A72, A192 Description UN1263, Paint, 3, III

**IMDG** 

UN/ID no
UN1263
Proper shipping name
Hazard Class
Packing Group
EmS-No
Special Provisions
UN1263
Paint
III
F-E, S-E
Special Provisions

**Description** UN1263, Paint, 3, III (27°C c.c.)

### 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

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 Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - 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

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Styrene - 100-42-5	0.1	
Barium sulfate - 7727-43-7	1.0	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

	Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
	Styrene	1000 lb	-	-	X
1	100-42-5				

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name Hazardous Substances RQs		CERCLA/SARA RQ	Reportable Quantity (RQ)
Styrene 1000 lb		-	RQ 1000 lb final RQ
100-42-5			RQ 454 kg final RQ

## **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
Titanium dioxide - 13463-67-7	Carcinogen	

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Styrene 100-42-5	X	X	Х
Mica 12001-26-2	X	X	Х
Titanium dioxide 13463-67-7	X	X	Х
Barium sulfate 7727-43-7	X	X	X

## U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 3 Instability 0 Physical and Chemical

Properties HMIS Health hazards 2\* Flammability 3 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \*= Chronic Health Hazard

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**Revision Note** 

No information available

Procedure used to derive the classification

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## **Disclaimer**

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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