

Primer 1087

SDS No : PHC-057 EU

SDS Revision Date (dd/mm/yyyy): 27/07/2021

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## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**1.1 Product identifier : Primer 1087**

**Product Code(s) :** 50-01-1087-0000

**SDS No. :** PHC-057 EU

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

: Primer coating.  
Use pattern: professional use.  
No restrictions on use known.

**1.3 Details of the supplier of the safety data sheet:**

**Parker Hannifin Manufacturing France SAS**

ZAC des Epineaux  
7 avenue Louis Blériot  
95740 Frépillon  
France

Email: [parker.france@parker.com](mailto:parker.france@parker.com)

Website: [www.parkerfrance.fr](http://www.parkerfrance.fr)

**Telephone :** 033 (01) 34 32 39 00

**1.4 Emergency Telephone Number**

: INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

Poisons Information Centre

France+33 (01) 45 42 59 59

Italy +39026610129

**1.5 National Contact**

: E-mail: [chomerics\\_europe@parker.com](mailto:chomerics_europe@parker.com)

Website: [www.chomerics.com](http://www.chomerics.com)

### SECTION 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

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liquid - blue. Solvent odour.

Most important hazards:

Flammable liquid and vapour. May be ignited by open flame.

May be fatal if swallowed and enters airways. Aspiration hazard. Causes serious eye damage. May cause respiratory irritation. Causes damage to the central nervous system through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse effects. For further information, please refer to section 11 of the SDS.

Harmful to aquatic life with long lasting effects. See Section 12 for more environmental information.

This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:

Flammable liquid - Category 3; H226

Aspiration toxicity - Category 1; H304

Eye damage/irritation - Category 1; H318

Specific target organ toxicity, single exposure - Category 3; H335

Specific target organ toxicity, repeated exposure - Category 1; H372

Chronic aquatic toxicity - Category 3; H412

EUH066

### 2.2 Label elements

Hazard pictogram(s)



Hazardous components which must be listed on the label: stoddard solvent; Tetraethyl orthosilicate; 1,2,4-Trimethylbenzene; Titanium tetrabutanolate.

Signal word:

DANGER!

Hazard statements:

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H372 - Causes damage to the central nervous system through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

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### Precautionary statements:

- P210 - Keep away from heat, sparks and open flame. - No smoking.
- P260 - Do not breathe vapour.
- P280 - Wear protective gloves/clothing and eye/face protection.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
- P331 - Do NOT induce vomiting.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P370 + P378 - In case of fire: Use carbon dioxide, dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P501 - Dispose of contents/container in accordance with local regulation.

### Supplemental Hazard Statements:

- EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May slowly hydrolyze in the presence of water to: Butan-1-ol; Ethanol.  
May cause gastrointestinal irritation.

PBT assessment:

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical nature - Mixture of: Petroleum distillates; Esters; Silicates.

The following substances shall be indicated according to legislation:

Substance name	CAS No	EC No.	Reach Registration No.	% Weight	Classification according to Regulation (EC) nr. 1272/2008	SCL, M-factor, ATE
stoddard solvent	8052-41-3	232-489-3	Present	60.0 - 100.0	**Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT RE 1; H372 **Aquatic Chronic 2; H411 **EUH066	Not applicable.
Tetraethyl orthosilicate	78-10-4	201-083-8	Present	10.0 - 30.0	*Acute Tox. 4; H332 Flam. Liq. 3; H226 STOT SE 3; H335 Eye Irrit. 2; H319	Not applicable.

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<b>Titanium tetrabutanolate</b>	5593-70-4	227-006-8	Present	<b>5.0 - 10.0</b>	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336	Not applicable.
<b>1,2,4-Trimethylbenzene</b>	95-63-6	202-436-9	Present	<b>1.0 - 5.0</b>	Flam. Liq. 3 H226 *Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Skin Irrit. 2 ; H315 Aquatic Chronic 2 ; H411	Not applicable.
<b>Silicic acid, ethyl ester</b>	11099-06-2	234-324-0	Not applicable.	<b>1.0 - 5.0</b>	Flam. Liq. 3; H226 Acute Tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 (self classified)	Not applicable.
<b>Possible decomposition products in case of hydrolysis are:</b>						
<b>Ethanol</b>	64-17-5	200-578-6	Present	<b>Not known.</b>	Flam. Liq. 2; H225	Not applicable.
<b>Butan-1-ol</b>	71-36-3	200-751-6	Present	<b>Not known.</b>	Flam. Liq. 3; H226 *Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336	Not applicable.

\*The above CLP Acute toxicity Classifications for the following chemicals are 'Minimum Classifications': Tetraethyl orthosilicate; 1,2,4-Trimethylbenzene; Butan-1-ol.

\*\*The classifications listed are in addition to those appearing in Annex VI of Regulation (EC) No. 1272/2008.

\*\*\*The following petroleum derived chemicals contain < 0.1% Benzene: stoddard solvent (see Note P)

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16. .

### SECTION 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

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- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. When symptoms persist or in all cases of doubt, seek medical advice. Wash contaminated clothing before re-use.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

### 4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

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

- : Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.  
May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.  
May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.  
Causes damage to the central nervous system through prolonged or repeated exposure. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.  
Repeated exposure may cause skin dryness or cracking.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.  
May slowly hydrolyze in the presence of water to: Ethanol; Butan-1-ol. Ethanol is harmful. Butan-1-ol is harmful.

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

- : Immediate medical attention is required. Causes serious eye damage. Aspiration hazard.  
Provide general supportive measures and treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

#### *Suitable extinguishing media*

- : Carbon dioxide (CO<sub>2</sub>); Dry chemical; Alcohol resistant foam.

#### *Unsuitable extinguishing media*

- : May react with water.

### 5.2 Special hazards arising from the substance or mixture

- : Vapours may be heavier than air and may collect in confined and low-lying areas. Vapors may travel considerable distance to a source of ignition and flash back. May slowly hydrolyze in the presence of water to: Butan-1-ol; Ethanol. Upon completion of the curing process, these hydrolysis products are no longer released. The product is insoluble and floats on water. The pressure in sealed containers can increase under the influence of heat. Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Silicon oxides; Hydrocarbons; Other unidentified organic compounds.

### 5.3 Advice for firefighters

#### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

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### Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control. Do not get water inside containers.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

- : Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment.

### 6.2 Environmental precautions

- : Prevent product from entering drains, sewers, waterways and soil. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

### 6.3 Methods and material for containment and cleaning up

- : Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Do not use combustible absorbents, such as sawdust. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

### 6.4 Reference to other sections

- : Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of contaminated material.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- : Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flame - No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical and ventilating equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep away from incompatibles. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

### 7.2 Conditions for safe storage, including any incompatibilities

- : Store in cool/well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Do not store near any incompatible materials (see Section 10). Keep containers dry and tightly closed to avoid moisture absorption and contamination.

### 7.3 Specific end use(s)

- : Coating

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

<b>Exposure Limits:</b>			
<b>Chemical Name</b>	<b>Exposure Limits</b>	<b>Type</b>	<b>Notes</b>
1,2,4-Trimethylbenzene			

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	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	European Union (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Finland (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	France (OEL)	None.
	50 ppm (250 mg/m <sup>3</sup> ) (STEL)		
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	None.
	100 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Ireland (OEL)	None.
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Italy (OEL)	None.
	100 mg/m <sup>3</sup> (TWA)	Poland (OEL)	Skin notation
	170 mg/m <sup>3</sup> (STEL)		
	20 ppm (100 mg/m <sup>3</sup> ) (TWA)	Spain (OEL)	None.
<b>Butan-1-ol</b>			
	50 ppm (150 mg/m <sup>3</sup> ) (TWA)	Finland (OEL)	Potential for cutaneous absorption
	75 ppm (230 mg/m <sup>3</sup> ) (STEL)		
	50 ppm (150 mg/m <sup>3</sup> ) (STEL)	France (OEL)	None.
	100 ppm (310 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	(exposure factor 1)
	45 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	Potential for cutaneous absorption
	90 mg/m <sup>3</sup> (STEL)		
	50 mg/m <sup>3</sup> (TWA)	Poland (OEL)	Skin notation
	150 mg/m <sup>3</sup> (STEL)		
	50 ppm (154 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	Skin - Potential for cutaneous absorption
	50 ppm (154 mg/m <sup>3</sup> ) (STEL)	The United Kingdom (WELs)	Potential for cutaneous absorption
<b>Ethanol</b>			
	1000 ppm (1900 mg/m <sup>3</sup> ) (TWA)	Finland (OEL)	None.
	1300 ppm (2500 mg/m <sup>3</sup> ) (STEL)		
	1000 ppm (1900 mg/m <sup>3</sup> ) (TWA)	France (OEL)	None.
	5000 ppm (9500 mg/m <sup>3</sup> ) (STEL)		
	500 ppm (960 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	(exposure factor 2)
	1900 mg/m <sup>3</sup> (TWA)	Hungary (OEL)	None.
	7600 mg/m <sup>3</sup> (STEL)		
	1900 mg/m <sup>3</sup> (TWA)	Poland (OEL)	None.
	1000 ppm (1910 mg/m <sup>3</sup> ) (TWA)	Spain (OEL)	None.
	1000 ppm (1920 mg/m <sup>3</sup> ) (TWA)	The United Kingdom (WELs)	None.
	3000 ppm (5760 mg/m <sup>3</sup> ) (STEL)		
<b>Silicic acid, ethyl ester</b>			
	None known.	European Union (OEL)	None.
<b>stoddard solvent</b>			
	100 ppm (573 mg/m <sup>3</sup> ) (TWA)	Ireland (OEL)	None.
	300 mg/m <sup>3</sup> (TWA)	Poland (OEL)	None.
	900 mg/m <sup>3</sup> (STEL)		

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	100 ppm (TWA)	Portugal (OEL)	None.
	30 ppm (175 mg/m <sup>3</sup> ) (TWA) 60 ppm (350 mg/m <sup>3</sup> ) (STEL)	Sweden (OEL)	Skin notation
<b>Tetraethyl orthosilicate</b>	10 ppm (85 mg/m <sup>3</sup> ) (TWA)	France (OEL)	None.
	1.4 ppm (12 mg/m <sup>3</sup> ) (TWA)	Germany (OEL)	(exposure factor 1)
	10 ppm (85 mg/m <sup>3</sup> ) (TWA) 30 ppm (255 mg/m <sup>3</sup> ) (STEL)	Ireland (OEL)	None.
	80 mg/m <sup>3</sup> (TWA)	Poland (OEL)	None.
	10 ppm (87 mg/m <sup>3</sup> ) (TWA) 30 ppm (260 mg/m <sup>3</sup> ) (STEL)	Spain (OEL)	None.
<b>Titanium tetrabutanolate</b>	None known.	European Union (OEL)	None.

### Biological Exposure Indices:

<u>Chemical Name</u>	<u>Biological Exposure Indices</u>	<u>Type</u>
<b>1,2,4-Trimethylbenzene</b>	400 mg/g, Determinant: Dimethylbenzoic acid (sum of all isomers after hydrolysis; measured as mg/g Creatinine), Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)
	600 mg/g Creatinine, Determinant: Total dimethylbenzoic acids (after hydrolysis) in urine, Specimen: Urine	France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)
<b>Butan-1-ol</b>	10 mg/g, Determinant: 1-Butanol (after hydrolysis measured as mg/g Creatinine), Specimen: Urine 2 mg/g, Determinant: 1-Butanol (after hydrolysis measured as mg/g Creatinine), Specimen: Urine	Germany. TRGS 903, BAT List (Biological Limit Values)

Biological Exposure Indices:

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

1,2,4-Trimethylbenzene (CAS # 95-63-6)

600 mg/g Creatinine, Determinant: Total dimethylbenzoic acids (after hydrolysis) in urine, Specimen: Urine

Germany. TRGS 903, BAT List (Biological Limit Values)

1,2,4-Trimethylbenzene (CAS # 95-63-6)

400 mg/g, Determinant: Dimethylbenzoic acid (sum of all isomers after hydrolysis; measured as mg/g Creatinine),

Specimen: Urine

Butan-1-ol (CAS # 71-36-3)

10 mg/g, Determinant: 1-Butanol (after hydrolysis measured as mg/g Creatinine), Specimen: Urine

2 mg/g, Determinant: 1-Butanol (after hydrolysis measured as mg/g Creatinine), Specimen: Urine

Derived No Effect Level (DNEL): No information available.

Predicted No Effect Concentration (PNEC): No information available.

### 8.2 Exposure controls

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### Ventilation and engineering measures

: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Advice should be sought from respiratory protection specialists.

**Skin protection** : Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Wear resistant clothing and boots.

**Eye / face protection** : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary. See also EN 166.

### Other protective equipment

: Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

### General hygiene considerations

: Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### 8.3 Environmental exposure controls

: Avoid release to the environment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	: liquid - blue
<b>Colour</b>	: blue
<b>Odour</b>	: Solvent odor.
<b>Odour threshold</b>	: No information available.
<b>pH</b>	: No information available.
<b>Flash point</b>	: 36.6°C
<b>Flashpoint (Method)</b>	: closed cup
<b>Lower flammable limit (% by vol.)</b>	: 1%
<b>Upper flammable limit (% by vol.)</b>	: 6%
<b>Auto-ignition temperature</b>	: 245°C
<b>Decomposition temperature</b>	: No information available.
<b>Oxidizing properties</b>	: None known.
<b>Explosive properties</b>	: Not explosive
<b>Initial boiling point and boiling range</b>	: > 149°C (based on ingredients)
<b>Melting/Freezing point</b>	: < - 34°C
<b>Relative density</b>	: 0.81

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- Solubility in water** : negligible. May react with water.  
**Other solubility(ies)** : No information available.  
**Vapour pressure** : 111 hPa @ 55°C  
**Vapour density** : Heavier than air.  
**Partition coefficient: n-octanol/water**  
: No information available.  
**Viscosity** : 3 cP  
**Evaporation rate (BuAe = 1)**  
: No information available.  
**Particle characteristics** : Not applicable.

### 9.2 Other Information

- Volatiles (% by weight)** : 90%  
**Volatile organic Compounds (VOC's)**  
: 765 g/L  
**Other physical/chemical comments**  
: No additional information.

## SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity** : Not normally reactive. May slowly hydrolyze in the presence of water to: Butan-1-ol; Ethanol. Upon completion of the curing process, these hydrolysis products are no longer released.  
**10.2 Chemical stability** : Stable under normal conditions.  
**10.3 Possibility of hazardous reactions**  
: Hazardous polymerization does not occur.  
**10.4 Conditions to avoid** : Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials. Protect from moisture.  
**10.5 Incompatible materials**  
: Strong oxidizing agents; Strong acids; Water; Halogenated compounds  
**10.6 Hazardous decomposition products**  
: None known.  
Burning produces obnoxious and toxic fumes. In the event of fire the following can be released: Carbon oxides; Silicon oxides; Hydrocarbons; Other unidentified organic compounds.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological effects:

- Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.  
**Skin corrosion/Irritation** : According to the classification criteria of the European Union, this product is not considered as being a skin corrosive or irritant.  
**Serious eye damage/irritation**  
: This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:  
Eye damage/irritation - Category 1. Causes serious eye damage.  
**Respiratory or skin sensitisation**  
: Not expected to be a skin or respiratory sensitizer.

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- Germ cell mutagenicity** : Not classifiable as a mutagen.  
The following petroleum derived chemicals contain < 0.1% Benzene: stoddard solvent (see Note P).
- Carcinogenicity** : Not classifiable as a human carcinogen.  
The following petroleum derived chemicals contain < 0.1% Benzene: stoddard solvent (see Note P).
- Reproductive toxicity** : Contains no ingredient listed as toxic to reproduction.
- STOT-single exposure** : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:  
Specific target organ toxicity, single exposure; Category 3. May cause respiratory irritation.
- STOT-repeated exposure** : This mixture is classified as hazardous in accordance with Regulation (EC) No 1272/2008. Classification:  
Specific target organ toxicity, repeated exposure - Category 1. Causes damage to the central nervous system through prolonged or repeated exposure. Contains: stoddard solvent. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.
- Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.
- Routes of exposure** : Eye contact; Skin contact; Inhalation; Ingestion
- Effects of acute exposure** : Inhalation: May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties.

Skin contact: May cause mild skin irritation.

Eye contact: Causes serious eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Potential Chronic Health Effects

- : Repeated exposure may cause skin dryness or cracking.  
Prolonged overexposure may cause slight liver and kidney effects, such as increased organ weights.

### Information on other Hazards

- : May slowly hydrolyze in the presence of water to: Butan-1-ol; Ethanol. Ethanol is harmful. Butan-1-ol is harmful.

### 11.1.1 Acute Toxicity

#### Toxicological data

- : No data is available on the product itself. The calculated ATE values for this mixture are:  
ATE oral = 5646 mg/kg  
ATE dermal = 3465 mg/kg  
ATE inhalation (vapours) = 28.9 mg/L/4H

See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
stoddard solvent	21.4 mg/L (vapour)	> 5000 mg/kg	> 3000 mg/kg
Tetraethyl orthosilicate	10 - 16.8 mg/L (aerosol)	6270 mg/kg	5859 mg/kg
Titanium tetrabutanolate	No information available.	3122 mg/kg	5300 mg/kg
1,2,4-Trimethylbenzene	18 mg/L (vapour)	5000 mg/kg	> 3160 mg/kg
Silicic acid, ethyl ester	No information available.	> 2000 mg/kg	No information available.
<b>Possible decomposition products in case of hydrolysis are:</b>			
Ethanol	> 32 380 ppm (61 mg/L) (vapour)	7060 mg/kg	> 15 800 mg/kg
Butan-1-ol	8000 ppm (24.3 mg/L) (vapour)	790 - 4360 mg/kg	3402 mg/kg

### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

: Harmful to aquatic life with long lasting effects. No data is available on the product itself. Should not be released into the environment. The product contains the following substances which are hazardous for the environment: 1,2,4-Trimethylbenzene. Note: The information listed for stoddard solvent applies to a 'typical' complex hydrocarbon composition of C9-14 Aliphatic [2-25% aromatic] Hydrocarbon Solvents. The composition of the stoddard solvent in this material is unknown. Therefore, this particular stoddard solvent is not classifiable for environmental toxicity.

See the following tables for individual ingredient ecotoxicity data.

#### Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
stoddard solvent	8052-41-3	2.1 - 4.2 mg/L (Bluegill sunfish)	No information available.	None.
Tetraethyl orthosilicate	78-10-4	> 245 mg/L (Zebra fish)	No information available.	None.
Titanium tetrabutanolate	5593-70-4	1825 mg/L	No information available.	None.
1,2,4-Trimethylbenzene	95-63-6	7.72 mg/L (Fathead minnow)	No information available.	None.
Silicic acid, ethyl ester	11099-06-2	> 245 mg/L (Zebra fish) (Read-across)	No information available.	None.
Ethanol	64-17-5	> 100 mg/L (Fathead minnow)	No information available.	None.
Butan-1-ol	71-36-3	1376 mg/L (Fathead minnow)	No information available.	None.

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<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
stoddard solvent	8052-41-3	No information available.	No information available.	None.
Tetraethyl orthosilicate	78-10-4	> 75 mg/L (Daphnia magna)	No information available.	None.
Titanium tetrabutanolate	5593-70-4	1300 mg/L (Daphnia magna)	4 mg/L	None.
1,2,4-Trimethylbenzene	95-63-6	3.6 mg/L (Daphnia magna)	No information available.	None.
Silicic acid, ethyl ester	11099-06-2	> 193 mg/L (Daphnia magna) (Read-across)	No information available.	None.
Ethanol	64-17-5	5012 mg/L (Daphnia magna)	No information available.	None.
Butan-1-ol	71-36-3	1328 mg/L (Daphnia magna)	4.1 mg/L	None.

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
stoddard solvent	8052-41-3	No information available.	No information available.	None.
Tetraethyl orthosilicate	78-10-4	> 100 mg/L/72hr (Green algae)	100 mg/L/72hr	None.
Titanium tetrabutanolate	5593-70-4	225 mg/L/96hr (Green algae)	No information available.	None.
1,2,4-Trimethylbenzene	95-63-6	2.356 mg/L/96hr (Green algae) (QSAR)	No information available.	N/Av
Silicic acid, ethyl ester	11099-06-2	> 207 mg/L/72hr (Green algae) (Read-across)	100 mg/L/72hr (Read-across)	None.
Ethanol	64-17-5	1000 mg/L/96hr (Green algae)	No information available.	None.
Butan-1-ol	71-36-3	225 mg/L/96hr (Green algae)	129 mg/L/96hr	None.

### 12.2 Persistence and degradability

- : The product itself has not been tested.  
The following ingredients are considered to be readily biodegradable: Ethyl silicates; Titanium tetrabutanolate; 1,2,4-Trimethylbenzene.  
The following ingredients are expected to be inherently biodegradable: stoddard solvent.

### 12.3 Bioaccumulation potential

- : The product itself has not been tested. See the following data for ingredient information.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
stoddard solvent (CAS 8052-41-3)	3.16 - 7.15	No information available.
Tetraethyl orthosilicate (CAS 78-10-4)	0.04	3
Titanium tetrabutanolate (CAS 5593-70-4)	0.84	No information available.
1,2,4-Trimethylbenzene (CAS 95-63-6)	3.78	31 - 275
Silicic acid, ethyl ester (CAS 11099-06-2)	- 0.7178	No information available.
Ethanol (CAS 64-17-5)	- 0.31	No information available.
Butan-1-ol (CAS 71-36-3)	0.88	3

**12.4 Mobility in soil** : The product itself has not been tested.

**12.5 Results of PBT and vPvB assessment**

: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6 Endocrine disrupting properties**

: None known or reported by the manufacturer.

**12.7 Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**12.8 Additional information** : None known or reported by the manufacturer.

### SECTION 13. DISPOSAL CONSIDERATIONS

**13.1 Waste Treatment Methods:**

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

**Methods of Disposal** : Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken for local recycling or waste disposal.

Dispose of in accordance with the European Directives on waste and hazardous waste. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste must be classified and labelled prior to recycling or disposal. Waste codes should be assigned by the user based on the application for which the product was used.

### SECTION 14. TRANSPORTATION INFORMATION

<i>Regulatory Information</i>	<b>14.1 UN Number</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Transport hazard class(es)</b>	<b>14.4 Packing Group</b>	<i>Label</i>
ADR/RID	UN1993	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent; Tetraethyl orthosilicate)	3	III	

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<b>ADR/RID Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				
<b>ICAO/IATA Additional information</b>	UN1993	Flammable liquid, n.o.s. (Stoddard solvent; Tetraethyl orthosilicate)	3	III	
<b>ICAO/IATA Additional information</b>	Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.				
<b>IMDG Additional information</b>	UN1993	FLAMMABLE LIQUID, N.O.S. (Stoddard solvent; Tetraethyl orthosilicate)	3	III	
<b>IMDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				

**14.5 Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

### 14.6 Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

## SECTION 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous mixtures.

#### Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:

None of the components are specifically listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended:

None of the components are specifically listed.

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances:

None of the components are specifically listed.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work:

stoddard solvent (CAS # 8052-41-3)  
Tetraethyl orthosilicate (CAS # 78-10-4)  
Titanium tetrabutanolate (CAS # 5593-70-4)  
1,2,4-Trimethylbenzene (CAS # 95-63-6)  
Silicic acid, ethyl ester (CAS # 11099-06-2)

Directive 94/33/EC on the protection of young people at work:

stoddard solvent (CAS # 8052-41-3)

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Follow national regulation for work with chemical agents.

German legislation on water endangering substances VwVwS: Water contaminating class (Germany): 2 (self classified)

### 15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

## SECTION 16. OTHER INFORMATION

### Legend

:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE: Acute Toxicity Estimate  
CAS: Chemical Abstract Services  
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
EC: European Community  
EC50: Effective Concentration 50%  
EEC: European Economic Community  
EN: European Standard  
EU: European Union  
HSDB: Hazardous Substances Data Bank  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
LC: Lethal Concentration  
LD: Lethal Dose  
NOEC: No observable effect concentration  
OECD: Organisation for Economic Co-operation and Development  
OEL: National occupational exposure limits  
PEL: Permissible exposure limit  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
RTECS: Registry of Toxic Effects of Chemical Substances  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
WEL: Workplace Exposure Limit

**Information Source** : 1. Material Safety Data Sheet from manufacturer.  
2. Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2019 (Chempendium, RTECs, HSDB, INCHEM).  
3. European Chemicals Agency, Classification Legislation, 2019.  
4. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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### Regulation and Procedure :

Flammable;Flash point  
Eye irritation; Expert judgement  
Aspiration ;Expert judgement  
Specific target organ toxicity, single exposure; Expert judgement  
Specific Target Organ Toxicity, Repeated Exposure.; Expert judgement Aquatic toxicity;Expert judgement

#### H-phrases (full-text)

H225 - Highly flammable liquid and vapour.  
H226 - Flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H372 - Causes damage to organs (a,b,c) through prolonged or repeated exposure.  
H373 - May cause damage to organs (a,b,c) through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
H412 - Harmful to aquatic life with long lasting effects.  
EUH066 - Repeated exposure may cause skin dryness or cracking.

### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p><b>Prepared for:</b> Parker Hannifin Corp. 77 Dragon Court Woburn, MA, USA 01888 Telephone: 001-781-935-4850 <a href="http://www.parker.com">http://www.parker.com</a> Direct all enquiries to Parker Hannifin.</p>	
<p><b>Prepared by:</b> ICC The Compliance Center Inc. <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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