

# Safety Data Sheet

## Section 1 - Chemical Product and Company Identification

Product Identifier  
Product Name Metrosoft (Soft Liner) Liquid  
Supplier details Metrodent Limited  
Lowergate Works, Lowergate, Paddock, Huddersfield  
United Kingdom +44 1484 461616  
sales@metrodent.com  
Emergency Contacts +44 1484 461616 (Office Hours)  
Intended purposes Dental

## Section 2 - Hazards Identification

**GHS Classification:** Not a hazardous substance or mixture.

**GHS Label element:** Not a hazardous substance or mixture.

### Potential Health Effects

#### Carcinogenicity:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Emergency Overview

**Appearance:** Liquid

**Colour:** Clear, Colorless

**Hazard Summary:** No information available

## Section 3 - Composition, Information on Ingredients

**Substance / Mixture:** Mixture

### Hazardous Components

CAS-No.	Chemical Name	Concentration(%)
115-86-6	Triphenyl Phosphate	1 - 5

## Section 4 - First Aid Measures

**General Advice:** Do not leave the victim unattended.

**Inhalation:** Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, get medical advice/attention.

- Skin Contact:** Wash off with soap and plenty of water. Get medical advice/attention if irritation develops and persists.
- Eye Contact:** Remove contact lenses. Protect unharmed eye. Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, get medical advice/attention.
- Ingestion:** Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, get medical advice/attention.

#### Section 5 - Fire Fighting Measures

- Unsuitable extinguishing media:** High volume water jet.
- Specific hazards during firefighting:** Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products:** No hazardous combustion products are known.
- Specific extinguishing methods:** Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Further information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

#### Section 6 - Accidental Release Measures

- Environmental Precautions:** Prevent product from entering drains. If the product contaminates rivers and lakes or drains, inform respective authorities.
- Methods and materials for Containment and cleaning up:** Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

#### Section 7 - Handling and Storage

- Handling:** For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
- Storage:** Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations/working materials must comply with the technological safety standards.
- Materials to avoid:** No materials to be especially mentioned.

#### Section 8 - Exposure Controls, Personal Protection

CAS-No.	Components	Value type (form of exposure)	Control parameters / Permissible concentration	Basis
115-86-6	Triphenyl Phosphate	TWA	3 mg/m <sup>3</sup>	ACGIH

		TWA	3 mg/m <sup>3</sup>	NIOSH REL
		TWA	3 mg/m <sup>3</sup>	OSHA Z-1
		TWA	3 mg/m <sup>3</sup>	OSHA PO

### Personal protective equipment

#### Respiratory protection:

No personal respiratory protective equipment normally required. In the case of vapour formation, use a respirator with an approved filter.

#### Eye Protection:

Safety glasses.

#### Skin and Body Protection:

Protective Suit.

#### Hygiene Measures:

General industrial hygiene practice.

## Section 9 - Physical and Chemical Properties

#### Appearance:

Liquid

#### Color:

Clear, colorless

#### Odor:

No data available.

#### pH:

No data Available

#### Freezing Point (Melting point/freezing point):

Estimated -30°C (-22°F)

#### Boiling Point ( Boiling point/boiling range:

239°C (462°F)  
(13 hPa)

#### Flash point:

224.0° C (435.2°F)

#### Evaporation Rate (H<sub>2</sub>O=1):

No data available

#### Flammability (solid,gas):

No data available

#### Burning rate:

No data available

#### Upper explosion limit:

No data available

#### Lower explosion limit:

No data available

#### Vapor pressure:

0.2 mmHg @ 150°C (302°F)

#### Relative vapour density:

No data available

#### Relative density:

1.09 @ 25°C (77°F)

Reference substance: (water = 1)

#### Density:

No data available

#### Bulk density:

No data available

#### Solubility(ies)

##### Water solubility:

0.00005 g/l

##### Other solvents:

No data available

#### Partition coefficient:

No data available

##### n-octanol/water

#### Auto-ignition temperature:

No data available

#### Viscosity

##### Viscosity, kinematic:

16.4 mm<sup>2</sup>/s @ 25°C(77°F)

## Section 10 - Stability and Reactivity

#### Reactivity:

No dangerous reaction known under conditions of normal use.

#### Chemical Stability:

Stable under normal conditions.

#### Possibility of Hazardous Reactions:

No hazards to be specially mentioned.

#### Conditions to avoid:

None known.

#### Incompatible materials:

Strong oxidizing agents

**Acute Toxicity****Components:****115-86-6:**

Acute oral toxicity: LD50 (Rat, male and female): > 20,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 (Rabbit): >10,000 mg/kg  
Method: OECD Test Guideline 402

**Skin Corrosion/Irritation****Components:****115-86-6:**

Species: Rabbit; exposure time: 4 h.; No skin irritation  
Method: OECD Test Guideline 404

**Serious Eye Damage/Eye Irritation****Components:****115-86-6:**

Species: Rabbit; exposure time: 24 h.; No eye irritation  
Method: OECD Test Guideline 405

**Respiratory or Skin Sensitization****Components:****115-86-6:**

Species: Guinea Pig; Test type: Maximisation Test (GMPT);  
Did not cause sensitization on laboratory animals; GLP: Yes  
Method: OECD Test Guideline 406

**Germ Cell Mutagenicity****Components:****115-86-6**

Genotoxicity in vitro: Species: Chinese hamster lung fibroblasts; Test type:  
Chromosome aberration test in vitro; Metabolic activation: with  
and without metabolic activation; Result: Negative, GLP: Yes  
Method: Mutagenicity (in vitro mammalian cytogenetic test)

Germ cell mutagenicity-  
Assessment: tests on bacterial or mammalian cell cultures did not show  
mutagenic effects.

**Carcinogenicity****Components:****115-86-6**

Remarks: This information is not available.

Carcinogenicity-Assessment: Carcinogenicity classification not possible from current data.

**Reproductive toxicity****Components:****115-86-6**

Effects on fertility: Test type: One generation study; species: Rat, male and  
female; Application Route: Oral; Dose: 166, 341, 516, 690  
mg/kg; General Toxicity – Parent: NOAEL: 690 mg/kg bw;  
Method: OECD Test Guideline 415; Result: Animal testing did  
not show any effects on fertility; GLP: No data available.

Effects on fetal development: Species: Rat; Application Route: Oral; Dose: 166, 341, 516,  
690 mg/kg; Duration of Single Treatment: 91 d; General

Toxicity Maternal: NOAEL: .690 mg/kg bw; Teratogenicity: NOAEL: .690 mg/kg bw; Method: OECD Test Guideline 414; GLP: No data available.

Reproductive toxicity-Assessment: Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.

#### **STOT – Single Exposure**

Product: No data available.  
Components: 115-86-6: no data available.

#### **STOT – Repeated Exposure**

Product: No data available.  
Components: 115-86-6: no data available.

#### **Repeated Dose Toxicity**

Components: 115-86-6; Species: Rat, male and female; NOAEL: 250 ppm; Application Route: Oral; Exposure time: 4 wk; Number of exposures: daily; Dose: 0, 250, 1000, or 4000 ppm; Method: OECD Test Guideline 407; GLP: yes.

#### **Aspiration Toxicity**

Product: No aspiration toxicity classification.

#### **Further Information**

Product: Remarks: No data available.

### Section 12 - Ecological Information

#### **Ecotoxicity**

##### **Components:**

##### **115-86-6**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.4 mg/l; Exposure time: 96 h; Test Type: Static test

Toxicity to daphnia & other aquatic invertebrates: EC50 (Daphnia magna (Water Flea)): 1 mg/l; Exposure time: 72 h; Test Type: Growth inhibition

M-Factor (Acute aquatic toxicity): 1  
Ecotoxicology Assessment  
Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

#### **Persistence and Degradability**

##### **Components:**

##### **115-86-6**

Biodegradability: Aerobic: Inoculum: Activated sludge, domestic, adaption not specified  
Concentration: 100 mg/l; Result: Readily biodegradable;  
Biodegradation: 83%; Exposure time: 28 d;  
Remarks: Readily biodegradable

#### **Bioaccumulative Potential**

##### **Components:**

##### **115-86-6**

Bioaccumulation: Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 271; Exposure time: 90 d

Partition coefficient: n-octanol/water:

Log Pow: 4.63 (20°C)

**Mobility in Soil:**

No data available

**Other Adverse Effects:**

No data available

**Product**

Regulation:

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone – CAA Section 602 Class 1 Substances

Remarks:

This product neither contains, nor was manufactured with a Class 1 or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B)

Additional ecological information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal; Toxic to aquatic life with long lasting effects

Section 13 - Disposal Considerations

**Disposal Methods**

**Waste from residues:**

Disposed of in accordance with all Local, State and Federal regulations.

Section 14 - Transport Information

**IATA**

Not regulated as a dangerous good.

**IMDG-Code:**

Not regulated as a dangerous good.

**DOT (U.S.)**

Not regulated as a dangerous good.

Section 15 - Regulatory Information

**WHMIS Classification:**

Not Rated

**EPCRA – Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity:**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ

**SARA 311/312 Hazards:**

No SARA Hazards

**SARA 302**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

This product does not contain any hazardous air pollutant (SAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112® for Accidental Release Prevention (40 CFR 68, 130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMIs Intermediate or Final VOC's (40 CFR 60.4889).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A. This product does not contain any hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

**US State Regulations**

<b>Massachusetts Right to Know</b>	115-86-6	Triphenyl Phosphate	1-5%
<b>Pennsylvania Right to Know</b>	115-86-6	Non-Hazardous Ingredients Triphenyl Phosphate	90-100% 1-5%
<b>New Jersey Right to Know</b>	115-86-6	Non-Hazardous Ingredients Triphenyl Phosphate	90-100% 1-5%

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

<b>United States TSCA Inventory</b>	:	y (positive listing) (On TSCA Inventory)
<b>Canadian Domestic Substances List (DSL)</b>	:	y (positive listing) (All components of this product are on the Canadian DSL)
<b>Australia Inventory of Chemical Substances (AICS)</b>	:	y (positive listing) (On the inventory, or in compliance with the inventory)
<b>New Zealand Inventory of Chemical Substances</b>	:	y (positive listing) (On the inventory or in compliance with the inventory)
<b>Japan ENCS _ Existing and New Chemical Substances Inventory</b>	:	y (positive listing) (On the inventory or in compliance with the inventory)
<b>Korea Korean Existing Chemicals inventory (KECI)</b>	:	y (positive listing) (On the inventory or in compliance with the inventory)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	:	y (positive listing) (On the inventory or in compliance with the inventory)
<b>China Inventory of Existing Chemical Substances in China (IECSC)</b>	:	y (positive listing) (On the inventory or in compliance with the inventory)

## Section 16 - Additional Information

**Hazardous Material Information System (HMIS) Rating**

HEALTH 0  
FLAMMABILITY 1  
PHYSICAL HAZARD 0

**National Fire Protection Association (NFPA)****HMIS & NFPA Hazard Rating**

HEALTH 0  
FLAMMABILITY 1  
INSTABILITY 0

**PHYSICAL HAZARD**

0 = not significant  
1 = Slight  
2 = Moderate  
3 = High  
4 = Extreme  
\* = Chronic

**Legacy SDS:** 100000011328

**Material number:**

16053196, 103735, 107491, 89383, 104809, 105838, 73002

**Key or legend to abbreviations and acronyms used in the safety data sheet**

<b>ACGIH</b>	American Conference of Government Industrial Hygienists	<b>LD50</b>	Lethal Dose 50%
<b>AICS</b>	Australia, Inventory of Chemical Substances	<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>DSL</b>	Canada, Domestic Substances List	<b>NFPA</b>	National Fire Protection Agency
<b>NDSL</b>	Canada, Non-Domestic Substances List	<b>NIOSH</b>	National Institute for Occupational Safety & Health
<b>CNS</b>	Central Nervous System	<b>NTP</b>	National Toxicology Program
<b>CAS</b>	Chemical Abstract Service	<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>EC50</b>	Effective Concentration	<b>NOAEL</b>	No Observable Adverse Effect Level
<b>EC50</b>	Effective Concentration 50%	<b>NOEC</b>	No Observed Effect Concentration
<b>EGEST</b>	EOSCA Generic Exposure Scenario Tool	<b>OSHA</b>	Occupational Safety & Health Administration
<b>EOSCA</b>	European Oilfield Specialty Chemicals Association	<b>PEL</b>	Permissible Exposure Limit
<b>EINECS</b>	European Inventory of Existing Chemical Substances	<b>PICCS</b>	Philippines Inventory of Commercial Chemical Substances
<b>MAK</b>	Germany Maximum Concentration Values	<b>PRNT</b>	Presumed Not Toxic
<b>GHS</b>	Globally Harmonized System	<b>RCRA</b>	Resource Conservation Recovery Act
<b>&gt;=</b>	Greater Than or Equal To	<b>STEL</b>	Short-term Exposure Limit
<b>IC50</b>	Inhibition Concentration 50%	<b>SARA</b>	Superfund Amendments and Reauthorization Act.
<b>IARC</b>	International Agency for Research on Cancer	<b>TLV</b>	Threshold Limit Value
<b>IECSC</b>	Inventory of Existing Chemical Substances in China	<b>TWA</b>	Time Weighted Average
<b>ENCS</b>	Japan, Inventory of Existing and New Chemical Substances	<b>TSCA</b>	Toxic Substance Control Act
<b>KECI</b>	Korea, Existing Chemical Inventory	<b>UVCB</b>	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<b>&lt;=</b>	Less Than or Equal To	<b>WHMIS</b>	Workplace Hazardous Materials Information System

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200), THE COMMONWEALTH OF PENNSYLVANIA REGULATIONS (TITLE 34. CHAPTERS 301-323) AND CANADIAN WHMIS REGULATIONS, ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED. THE ABOVE INFORMATION MAY BE BASED IN PART ON INFORMATION PROVIDED BY COMPONENT SUPPLIERS AND IS BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF THESE DATA, THE RESULTS TO BE OBTAINED FROM THE USE OF THE MATERIAL, OR THE HAZARDS CONNECTED WITH SUCH USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATE HEREOF MAY SUGGEST MODIFICATION OF THE INFORMATION, WE ASSUME NO RESPONSIBILITY FOR THE RESULT OF ITS USE. THIS INFORMATION AND MATERIAL IS FURNISHED ON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS/HER OWN DETERMINATION AS TO THE SUITABILITY OF THE MATERIAL FOR HIS/HER PARTICULAR PURPOSE AND ON THE CONDITION THAT HE/SHE ASSUME THE RISK OF HIS/HER USE THEREOF.

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