

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

## **1. Product and Company Identification**

### **Commercial product name**

TFT/LCD Screen-Cleaner

### **Further trade names**

11208

### **Chemical characterization ( Mixture )**

Mixtures of hydrocarbons with propellant propane/butane

### **Company/undertaking identification**

#### **Manufacturer**

Weicon GmbH

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## **2. Hazards Identification**

### **Route(s) of Entry**

Skin and eye contact, inhalation and ingestion.

### **Signs and Symptoms of Exposure**

DANGER!

Extremely flammable.

Contents under pressure.

Harmful by inhalation.

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): Not listed

Carcinogenicity (IARC): Not listed

Carcinogenicity (OSHA): Not listed

## **3. Composition/Information on Ingredients**

### **Hazardous components**

CAS No.	Components	Quantity
106-97-8	butane	20 - 40 %
74-98-6	propane	10 - 20 %
34590-94-8	(2-methoxymethylethoxy)propanol	<1.5 %

## **4. First Aid Measures**

### **General information**

Remove contaminated soaked clothing immediately.

### **After inhalation**

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

### **After contact with skin**

Wash off with soap and plenty of water.

Consult a doctor if skin irritation persists.

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

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### **After contact with eyes**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

If eye irritation persists, consult a specialist.

### **After ingestion**

If swallowed seek medical advice immediately and show the doctor packing or label.

### **Advice to physician**

The following symptoms may occur:

Unconsciousness

Delirious state

Anaesthetic state

Headache

Confusion

Dizziness

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## **5. Fire Fighting Measures**

### **Suitable extinguishing media**

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

### **Unsuitable extinguishing media**

Full water jet

### **Special hazards arising from the chemical**

Fire may produce:

Carbon monoxide and carbon dioxide.

Nitrogen oxides (NO<sub>x</sub>)

### **Protective equipment and precautions for firefighters**

Use breathing apparatus with independent air supply.

### **Additional information**

Heating will cause pressure rise with risk of bursting.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## **6. Accidental Release Measures**

### **Personal precautions**

Keep away sources of ignition.

In case of vapour formation use respirator.

Use only explosion-proof equipment.

Ensure adequate ventilation.

Use personal protective clothing.

### **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

### **Methods for cleaning up/taking up**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

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## **7. Handling and Storage**

### **Handling**

#### **Advice on safe handling**

Ensure adequate ventilation.

Avoid contact with skin, eyes and clothing.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

Do not spray on a naked flame or any other incandescent material.

Heating will cause pressure rise with risk of bursting.

**Further information on handling**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

**Storage****Requirements for storage rooms and vessels**

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

Storage temperature may not exceed 50°C (=122°F).

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**8. Exposure Controls/Personal Protection****Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m <sup>3</sup>	fib/cc	Category	Origin
34590-94-8	Dipropylene glycol methyl ether	100	600		TWA (8 h)	PEL
74-98-6	Propane	1000	1800		TWA (8 h)	PEL
		1000	1800		TWA (8 h)	REL
106-97-8	n-Butane	800	1900		TWA (8 h)	REL

**Additional advice on limit values**

Aliphatic hydrocarbon gases (propane/butane/Alkane C1-C4) have workplace limits of 1000 ppm (TWA-ACGIH).

**Protective and hygiene measures**

Ensure adequate ventilation, especially in confined areas.

Wash hands before breaks and immediately after handling the product.

At work do not eat, drink, smoke or take drugs.

Take off immediately all contaminated clothing.

Avoid contact with eyes, skin or mucous membrane.

**Respiratory protection**

Do not inhale gases/vapours/aerosols.

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type AX).

**Hand protection**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Butyl latex, 0,7 mm, 480 min., 60 min., i.e. protective glove made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Eye protection**

Safety goggles with side protection

**Skin protection**

Light protective clothing

**9. Physical and Chemical Properties****Appearance**

Form: Aerosol

Color: Whitish

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

Odor: Characteristic

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Boiling point: -44 °C

Flash point: -97 °C

**Explosive properties**

"The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated."

Lower explosion limits: 1,5 vol. %

Upper explosion limits: 12,8 vol. %

Vapour pressure: 8300 hPa

(at 20 °C)

Density (at 20 °C): 0,77 g/cm<sup>3</sup>

Water solubility: Immiscible

(at 20 °C)

Viscosity / dynamic: n.d.

**Other information**

Ignition temperature: 365 °C

**10. Stability and Reactivity****Stability**

Stable

**Conditions to avoid**

Fire or intense heat may cause violent rupture of packages.

Keep away from heat and sources of ignition.

Formation of explosive gas/air mixtures.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide.

**Possibility of Hazardous Reactions**

Will not occur

**Additional information**

No decomposition if stored and applied as directed.

**11. Toxicological Information****Acute toxicity**

Description of possible hazards to health effects is based on experience and/or toxicological characteristics of several components.

Harmful by inhalation.

**Corrosive and irritant effects**

Skin irritation: Non-irritant

Eye irritation :Non-irritant

**Sensitizing effects**

Sensitization skin : Non-sensitizing

**Empirical data on effects on humans**

Harmful by inhalation.

Inhalation causes narcotic effect/intoxication.

**12. Ecological Information**

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

**Further information**

Do not discharge product unmonitored into the environment.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**13. Disposal Considerations****Advice on disposal**

Remove in accordance with local official regulations.

Where possible recycling is preferred to disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging**

Offer empty spray cans to an established disposal company.

**14. Transport Information****US DOT 49 CFR 172.101****Proper shipping name**

AEROSOLS

ID Number: 1950

Hazard Class or Division: 2.1

Packing group: -

Label: 2.1

**Land transport (ADR/RID)**

UN number: 1950

ADR/RID class: 2

Warning plate

Hazard-no.: -

Hazard label: 2.1



ADR/RID packing group: -

**Description of the goods**

AEROSOLS

**Other applicable information**

LQ 2: combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total gross mass).

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with &gt; 5 kg or 5 L, transition period ends 31.12.2010.

**Marine transport**

UN number: 1950

IMDG code: 2

Marine pollutant: No

Hazard label: 2.1



IMDG packing group: -

EmS: F-D; S-U

**Description of the goods**

AEROSOLS

**Other applicable information**

Limited quantities (chapter 3.4): combination packaging: 1 l / 30 kg (total gross mass); trays: 1 l / 20 kg (total

Weicon GmbH

Revision date: 02.02.2010

Revision no.:

1,00

TFT/LCD Screen-Cleaner

7619-0144

gross mass)

**Air transport**

UN/ID number:	1950
ICAO/IATA-DGR:	2.1
Hazard label:	2.1



ICAO packing group:	-
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

**Description of the goods**  
AEROSOLS FLAMMABLE

**15. Regulatory Information****U.S. Regulations****National Inventory TSCA**

All of the components are listed on the TSCA inventory.

**SARA**

This product contains toxic chemical(s) subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372. Any such toxic chemical(s) are shown below.

**State Regulations**

This product contains max VOC: 38,98% (303 g/L)

**16. Other Information****Hazardous Materials Information Label (HMIS)**

Health:	1
Flammability:	4
Physical Hazard:	0

**NFPA Hazard Ratings**

Health:	1
Flammability:	4
Reactivity:	0
Unique Hazard:	

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*