

# SAFETY DATA SHEET

## Electro-Wash VZ ES6100E

### 1. Identification of the substance/preparation and of the company/undertaking

**Identification of the substance or preparation****Product name** : Electro-Wash VZ  
ES6100E**Use of the substance/preparation** : CLEANING PRODUCTS**Company/undertaking identification****Manufacturer** : ITW Chemtronics  
8125 Cobb Center Drive  
Kennesaw, GA 30152**Supplier** :**Importer** :  
ITW Contamination Control  
Skejby Nordlandsvej 307  
DK-8200 Aarhus N  
Denmark  
Tel +45 87 400 220  
Fax +45 87 400 222  
Email: info@itw-cc.com**Emergency telephone number** : Chemtrec - 1-800-424-9300 or collect 703-527-3887

### 2. Composition/information on ingredients

**Substance/Preparation** : Preparation

Ingredient Name	CAS number	%	EC Number	Classification
pentane, 1,1,1,2,2,3,4,5,5,5-decafluoro-	138495-42-8	1-25		
butane, 1,1,1,3,3-pentafluoro-	406-58-6	15-40		F; R11
trans-Dichloroethylene	156-60-5	15-30	205-860-2	F; R11 Xn; R20 R52/53
1,1,1,2-TETRAFLUOROETHANE	811-97-2	25-40	212-377-0	
Methanol	67-56-1	0.1-1	200-659-6	F; R11 T; R23/24/25, 39/23/24/25
<b>See Section 16 for the full text of the R Phrases declared above</b>				

\* Occupational Exposure Limit(s), if available, are listed in Section 8

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : R20- Harmful by inhalation.R36/38- Irritating to eyes and skin.**Human health hazards** : Harmful by inhalation.Irritating to eyes and skin.**See Section 11 for more detailed information on health effects and symptoms.**

## 4. First aid measures

### First aid measures

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
- Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

**Specific treatments** :

See Section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>.
- Special exposure hazards** : Pressurized container: protect from sunlight and do not expose to temperature exceeding 50°C. Do not pierce or burn, even after use.
- Hazardous thermal decomposition products** : May release dangerous gases (chlorine).
- Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental precautions and cleanup methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
- If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

**Note:** See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container in a cool, well-ventilated area. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** :

## 8. Exposure controls/personal protection

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
trans-Dichloroethylene	<b>ACGIH TLV (United States, 2000).</b> TWA: 793 mg/m <sup>3</sup> 8 hour(s). TWA: 200 ppm 8 hour(s).
Methanol	<b>EU OEL (Europe, 1991). Notes: Indicative</b> TWA: 260 mg/m <sup>3</sup> 8 hour(s). TWA: 200 ppm 8 hour(s).

**Exposure controls**

## **Electro-Wash VZ ES6100E**

- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Use chemical resistant, impervious gloves.
- Eye protection** : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.
- Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

## **9. Physical and chemical properties**

### **General information**

#### **Appearance**

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Characteristic.

### **Important health, safety and environmental information**

- pH** : Not available.
- Boiling point** : 95°C (203°F)
- Melting point** : May start to solidify at -49.35°C (-56.8°F) based on data for: trans-Dichloroethylene.
- Flash point** : None.
- Flammability (solid, gas)** : Not applicable.
- Explosive properties** : Not considered as a product presenting risks of explosion.
- Oxidising properties** : Not available.
- Vapour pressure** : 29.3 kPa (220 mm Hg) (at 20°C)
- Relative density** : The only known value is 1.25 g/cm<sup>3</sup> (trans-Dichloroethylene).
- Solubility** : Easily soluble in cold water, hot water.
- Vapour density** : >1 (Air = 1)
- Evaporation rate (butyl acetate = 1)** : >1 compared to Butyl acetate.

### **Other information**

## **10. Stability and reactivity**

- Stability** : The product is stable.
- Hazardous Decomposition Products** : May release dangerous gases (chlorine).

## **11. Toxicological information**

### **Potential Acute Health Effects**

- Inhalation** : Inhalation of high concentrations of vapour may affect the central nervous system.
- Ingestion** : Aspiration hazard if swallowed- can enter lungs and cause damage.
- Skin Contact** : Irritating to skin.
- Eye contact** : Irritating to eyes.

### **Acute toxicity**

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
trans-Dichloroethylene	LD50	1235 mg/kg	Oral	Rat
	LD50	2122 mg/kg	Oral	Mouse
Methanol	LD50	5628 mg/kg	Oral	Rat
	LD50	14200 mg/kg	Oral	Rabbit
	LD50	7300 mg/kg	Oral	Mouse
	LD50	15800 mg/kg	Dermal	Rabbit
	LDLo	143 mg/kg	Oral	human
	LDLo	428 mg/kg	Oral	human
	LDLo	6422 mg/kg	Oral	man
	LDLo	393 mg/kg	Dermal	Monkey
	LC50	64000 (4 hour(s))	Inhalation	Rat

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## Over-exposure signs/symptoms

**Target Organs** : Contains material which causes damage to the following organs: upper respiratory tract, central nervous system (CNS), eye, lens or cornea.

**Other adverse effects** : Not available.

## 12. Ecological information

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Methanol	Daphnia magna (EC50)	48 hour(s)	>10000 mg/l
	Oncorhynchus mykiss (EC50)	48 hour(s)	13200 mg/l
	Lepomis macrochirus (EC50)	48 hour(s)	16000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Lepomis macrochirus (LC50)	96 hour(s)	15400 mg/l

**Mobility** :

**Other adverse effects** : Not available.

## 13. Disposal considerations

**Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.





**Waste Classification** : Not applicable.

**European Waste Catalogue (EWC)** : Not available.

**Hazardous Waste** : The classification of the product may meet the criteria for a hazardous waste

## 14. Transport information

### International transport regulations

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1950	Aerosol.	2	-		-
ADN Class	1950	Aerosol.	2	-		-
IMDG Class	1950	Aerosol.	2.2	-		-
IATA-DGR Class	1950	Aerosol.	2.2	-		-

## 15. Regulatory information

### EU Regulations

**Hazard symbol(s)** :



Irritant

**Risk phrases** : R20- Harmful by inhalation. R36/38- Irritating to eyes and skin. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# Electro-Wash VZ ES6100E

**Safety Phrases** : S23- Do not breathe gas/fumes/vapour/spray.  
S24/25- Avoid contact with skin and eyes.  
S51- Use only in well-ventilated areas.  
S2- Keep out of the reach of children.

**Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.  
- Industrial applications

**EC Statistical Classification (Tariff Code)** : 32089091

## 16. Other information

**Full text of R phrases referred to in Sections 2 and 3 - Europe** : R11- Highly flammable.  
R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed  
R20- Harmful by inhalation.  
R36/38- Irritating to eyes and skin.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications referred to in Sections 2 and 3 - Europe** : F - Highly flammable  
T - Toxic  
Xn - Harmful  
Xi - Irritant

### HISTORY

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