

**SECTION 1: Identification of the substance/mixture and of the company/undertaking***1.1. Product identifier***Trade name** ES +**Article No.** 7637*1.2. Relevant identified uses of the substance or mixture and uses advised against***Product type** Graffiti remover.*1.3. Details of the supplier of the safety data sheet***Supplier** TakcareStreet address Vipvägen 7  
746 33 Bålsta  
Sweden

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Email info@takcare

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SE-754 50 Uppsala

Telephone +46 18 15 61 90

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**Email** info@trion.se*1.4. Emergency telephone number***Available outside office hours** Yes**Emergency phone number** 911 / 112*Other*Trion Tensid AB  
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Telephone: +46 (0) 70-788 03 20**SECTION 2: Hazards identification***2.1. Classification of the substance or mixture***Classification according to Regulation (EC) No 1272/2008, Annex VI**

**Classification** Skin irritation, hazard category 2  
Eye irritation, hazard category 2  
Acute toxicity, oral, hazard category 4

**Hazard statements** H302, H315, H319

## 2.2. Label elements

### GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

**Pictogram**



**Signal word**

Warning

**Hazard statements**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precaution statements**

P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician / / if you feel unwell.  
P302 + P352 IF ON SKIN: Wash with plenty of and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 Rinse mouth.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

## 2.3. Other hazards

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	H-phrase
Dimethyl glutarate	1119-40-0 214-277-2 01-2119900156-49-	30 - 50%	-	-
Dimethyl adipate	627-93-0 211-020-6 01-2119911093-50-	10 - 20%	-	-
Dimethyl succinate	106-65-0 203-419-9 01-2119486681-29-	10 - 20%	Eye Irrit. 2	H319
n-Butylpyrrolidone	3470-98-2 222-437-8 -	10 - 20%	Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4 - oral	H302, H315, H319

Y-Butyrolactone	96-48-0 202-509-5 01-2119471839-21-	10 - 20%	Eye Irrit. 2, Acute Tox. 4 - oral	H302, H319
Phosphoric acid	7664-38-2 231-633-2 01-2119485924-24-	<3%	Skin Corr. 1B	H314

**Substance additional information**

For the full text of the H phrases mentioned in this Section, see Section 16.

**SECTION 4: First aid measures***4.1. Description of first aid measures***Inhalation**

Fresh air and rest.

**Skin contact**

Wash the skin with soap and water. Remove contaminated clothing immediately and continue washing.

**Eye contact**

Rinse carefully with lukewarm water for several minutes. Remove any contact lenses. Keep eyelids wide apart. Continue to rinse. Consult a physician.

**Ingestion**

If the injured person is fully conscious, give him/her a couple of glasses of milk or water immediately. Do not induce vomiting. Consult a physician.

*4.2. Most important symptoms and effects, both acute and delayed***Inhalation**

Inhalation of high concentrations can result in: Pain, cough, Headache, nausea, vomiting, Vertigo and tiredness.

**Skin contact**

Repeated or prolonged skin contact can result in: irritation.

**Eye contact**

Risk of serious damage to eyes.

**Ingestion**

Ingestion of large amounts can result in: nausea, vomiting, diarrhoea and breathing difficulties.

*4.3. Indication of any immediate medical attention and special treatment needed*

Ensure that eyewash station are close to the workplace.

**SECTION 5: Firefighting measures***5.1. Extinguishing media***Suitable extinguishing media**

carbon dioxide (CO<sub>2</sub>), dry powder or Diffuse jet of water.  
Fire extinguishing methods: Cool with a diffuse jet of water. Cover with dry sand.

*5.2. Special hazards arising from the substance or mixture*

Not flammable, but can sustain combustion. The product can ignite when heated to temperatures at or in excess of the flash point.

*5.3. Advice for firefighters***Special protective equipment for fire-fighters**

In the event of fire, wear self contained breathing apparatus. Wear suitable protective clothing.

Other

Containers in the vicinity of fire should be moved immediately or cooled with water.

## SECTION 6:Accidental release measures

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

Use protective equipment as specified in section 8 of SDS. Do not get in eyes.

### 6.2. Environmental precautions

Prevent large discharges to drains. Collect in a suitable container that is approved for this purpose. Bank up and collect. In the event of major discharges into water, contact the waterworks or sewage works.

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

Absorb in inert material (vermiculite, dry sand or soil) and collect. Rinse clean with plenty of water. Consider the risk of slipping. Only large-scale discharges can constitute a risk.

### 6.4. Reference to other sections

For personal protective equipment, see under section 8, and for waste see under section 13.

## SECTION 7:Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Do not get in eyes. Wash hands thoroughly after handling. Keep away from sources of ignition - No smoking.

#### General hygiene

Wash hands before eating, drinking, or smoking. Ensure good industrial hygiene.

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

The product can attack certain plastics, rubber, painted and varnished surfaces. The package must be stored sealed and in a cool location. Store in the original container to avoid contamination. Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

This product should only be used for those uses described in section 1.2

## SECTION 8:Exposure controls/personal protection

### 8.1. Control parameters

National occupational exposure limits	Ingredient	CAS no.	EC No.	Exposure limit mg/m <sup>3</sup> -ppm		Short-term exposure limit mg/m <sup>3</sup> -ppm		Remark	Source	Year
				1	-	2	-			
	Phosphoric acid	7664-38-2	231-633-2	1	-	2	-	-	EH40/2005 Workplace exposure limits	-

### 8.2. Exposure controls

<b>Technical precaution measures</b>	Ensure that eyewash station are close to the workplace.
<b>Eye / face protection</b>	Safety glasses with side-shields conforming to EN166.
<b>Safety gloves</b>	Wear protective gloves. When handling chemicals, only CE marked chemical-resistant gloves may be used. The gloves must conform to the standard EN 374.
<b>Other skin protection</b>	Remove and wash contaminated clothing before re-use.
<b>Respiratory protection</b>	Wear breathing protection with a type A filter (brown) in the event of insufficient ventilation.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance, colour</b>	Yellowish
<b>Appearance, physical state</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Density</b>	1090 kg/m <sup>3</sup>
<b>Evaporation rate</b>	Not applicable
<b>Explosive properties</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Flash point</b>	> 90 ° C
<b>Form</b>	viscous liquid
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Melting point / freezing point</b>	Not applicable
<b>Odour</b>	weak odour of solvents
<b>Odour threshold</b>	Not applicable
<b>Oxidising properties</b>	Not applicable
<b>Partition coefficient: n-octanol / water</b>	Not applicable

<b>pH in solution</b>	~5
<b>pH value</b>	Not applicable
<b>Relative density</b>	Not applicable
<b>Solubility</b>	Can be mixed with: Organic solvents
<b>Solubility in water</b>	~50 %
<b>Upper / lower flammability or explosive limits</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Viscosity</b>	10800 cp

### 9.2. Other information

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not applicable

### 10.2. Chemical stability

**Chemical stability** The product is partially soluble in water. Stable under normal usage and storage conditions. .

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Reacts with strong bases.  
Incomplete combustion/thermal degradation generates: smoke, carbon dioxide (CO<sub>2</sub>) and harmful gases, e.g. carbon monoxide.

### 10.4. Conditions to avoid

**Conditions to avoid** Store separately from sources of ignition.

### 10.5. Incompatible materials

Not applicable

### 10.6. Hazardous decomposition products

Not applicable

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Information on toxicological effects** The product has a low toxicity, which means that the risk of injury during normal handling is small.

<b>acute toxicity</b>	Inhalation of large amounts can result in: Pain, cough, Headache, nausea, vomiting, Vertigo and tiredness. Ingestion may cause: nausea, vomiting, diarrhoea and breathing difficulties.
<b>skin corrosion/irritation</b>	Not applicable
<b>serious eye damage/irritation</b>	Not applicable
<b>Irritation</b>	Repeated or prolonged skin contact can result in: irritation. Risk of serious damage to eyes.
<b>respiratory or skin sensitisation</b>	Not applicable
<b>germ cell mutagenicity</b>	Not applicable
<b>carcinogenicity</b>	Not applicable
<b>reproductive toxicity</b>	Not applicable
<b>STOT-single exposure</b>	Not applicable
<b>STOT-repeated exposure</b>	Not applicable
<b>aspiration hazard</b>	Not applicable
<b>LD50 Oral</b>	Dimethyl adipate ( rat ): 8191 mg/kg. Dimethyl glutarate ( rat ): 8191 mg/kg. Dimethyl succinate ( rat ): > 5000 mg/kg. Y-Butyrolactone ( rat ): 800 mg/kg. Phosphoric acid ( rat ): 1530 mg/kg.
<b>LD50 Dermal</b>	Dimethyl succinate ( rabbit ): > 5000 mg/kg. Dimethyl glutarate ( rabbit ): > 2250 mg/kg. Dimethyl adipate ( rabbit ): > 2250 mg/kg. Phosphoric acid ( rabbit ): 2740 mg/kg.
<b>LC50 Inhalation</b>	Dimethyl glutarate ( rat ): (4h) > 5,6 mg/l. Y-Butyrolactone ( rat ): > 2,68 mg/l (4 h).

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Aquatic</b>	The product has a low level of toxicity to aquatic organisms.
<b>Acute fish toxicity</b>	Dimethyl succinate (LC50): (96 h) 10-100 mg/l. Dimethyl glutarate (LC50): (96 h) 33,6 mg/l. Dimethyl adipate (LC50): (96 h) 30,9 mg/l. Y-Butyrolactone (LC50): (96 h) 220-460 mg/l. Phosphoric acid (LC50): (96 h) 138 mg/l.
<b>Acute algae toxicity</b>	Dimethyl glutarate (IC50): (72 h) 18,2 mg/l. Y-Butyrolactone (IC50): (72 h) 79 mg/l.
<b>Acute crustacean toxicity</b>	Dimethyl succinate (EC50): (48 h) 10-100 mg/l. Dimethyl glutarate (EC50): (48 h) 122,1 mg/l. Dimethyl adipate (EC50): (48 h) 112-150 mg/l. Y-Butyrolactone (EC50): (48 h) > 500 mg/l.

*12.2. Persistence and degradability*

**Persistence and degradability** Biodegradable.

*12.3. Bioaccumulative potential*

**Bioaccumulative potential** Bio-accumulation is unlikely.

*12.4. Mobility in soil*

Not applicable

*12.5. Results of PBT and vPvB assessment*

Not applicable

*12.6. Other adverse effects*

Not applicable

*Other*

This assessment is based on the properties of the individual components.

**SECTION 13: Disposal considerations***13.1. Waste treatment methods*

**Disposal considerations** After dilution with water, small quantities are permitted to go to water treatment plants. Residue and used product that cannot be reused must be handled as hazardous waste. The company is affiliated to REPA.

**Packaging** Do not attempt to refill or clean the package. Empty packages must be handled in an environmentally correct manner according to applicable laws and provisions.

*Other*

**Waste management** The Waste Regulations 2011 No. 988 H4 Irritant: substances and preparations that are not corrosive, but that can cause inflammation in the event of direct, prolonged or repeated contact with the skin or mucous membranes.

**Waste code (EWC)** 20 01 13\* solvent.

**Additional waste information** The waste code (EWC) is a recommendation. In the event of non-compliant handling, the end user is personally responsible for a suitable EWC code.

**SECTION 14: Transport information***14.1. UN number*

Not applicable

*14.2. UN proper shipping name*

Not applicable

*14.3. Transport hazard class(es)*

Not applicable



*14.4. Packing group*

Not applicable

*14.5. Environmental hazards*

Not applicable

*14.6. Special precautions for user*

Not applicable

*14.7. Transport in bulk according to Annex II of Marpol and the IBC Code*

Not applicable

**SECTION 15:Regulatory information***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***EU regulations**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, REACH.  
 European Parliament and Council Regulation (EC) No 1272/2008, CLP.  
 Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.

**National regulations**

EH40/2005 Workplace exposure limits.  
 Waste Ordinance (2011:927).

*15.2. Chemical safety assessment*

Not applicable

**SECTION 16:Other information****Changes to previous revision**

Changes are made in the following sections: 1, 2, 3, 15, 16.

**References to key literature and data sources**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council, REACH.  
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council. .  
 EH40/2005 Workplace exposure limits  
 Waste Ordinance (2011:927).  
 Regulation (EC) No 648/2004 of the European Parliament and of the council on detergents.  
 Information also obtained from the constituent substances' safety data sheets.

**Phrase meaning**

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4  
 Eye Irrit. 2 - Eye irritation, hazard category 2  
 Skin Corr. 1B - Skin corrosion, hazard category 1B  
 Skin Irrit. 2 - Skin irritation, hazard category 2  
 H302 - Harmful if swallowed.  
 H314 - Causes severe skin burns and eye damage.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.