



## SAFETY DATA SHEET

### T.S.R. 200

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** T.S.R. 200  
**Product number** A007 EV  
**Internal identification** Janitorial

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

**Identified uses** Heavy Duty, Alkaline Liquid Cleaner for traffic soil removal with pressure washer.

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

Evans Vanodine International  
Brierley Road  
Walton Summit  
Preston. UK. PR5 8AH  
Tel: 01772 322 200  
Fax: 01772 626 000  
qclab@evansvanodine.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** New Safety Data Sheets - 8.30am to 4.45pm - 01772 322 200 - Mon to Fri. (Also available 24/7 from our website [www.evansvanodine.co.uk](http://www.evansvanodine.co.uk)) Technical Advice - 8.30am to 4.45pm - 01772 318 818 - Mon to Fri

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word** Danger  
**Hazard statements** H315 Causes skin irritation.  
H318 Causes serious eye damage.



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<b>SODIUM HYDROXIDE</b>		<b>0.1-1%</b>
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-xxxx
Spec Conc Limits :- Skin Corr. 1A (H314) >= 5 %, Skin Corr. 1B (H314) >=2% <5 %, Skin Irrit. 2 (H315) >=0.5%<2%, Eye Irrit. 2 (H319) >=0.5% <2%		
<b>Classification</b>		
Met. Corr. 1 - H290		
Skin Corr. 1A - H314		
Eye Dam. 1 - H318		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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

<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances. If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Do not induce vomiting. Give plenty of water to drink. Get medical attention.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Skin irritation. Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	May cause severe eye irritation.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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**5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	When heated and in case of fire, harmful vapours/gases may be formed.
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**5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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**Personal precautions**                      Wear eye and face protection. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions**            Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up**                Small Spillages: Flush away spillage with plenty of water. Large Spillages: Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor.

### 6.4. Reference to other sections

**Reference to other sections**            For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions**                        Wear eye protection. Avoid contact with skin.

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

**Storage precautions**                    Store in tightly-closed, original container in a dry and cool place. Store away from the following materials: Oxidising materials.

### 7.3. Specific end use(s)

**Specific end use(s)**                        The identified uses for this product are detailed in Section 1.2.

**Usage description**                        See Product Information Sheet & Label for detailed use of this product.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **SODIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### **Protective equipment**



**Appropriate engineering controls**                      Not relevant.

**Eye/face protection**                        Wear eye protection.

**Hand protection**                              Wear protective gloves. (Household rubber gloves.)

**Other skin and body protection**                      Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory protection**                      Respiratory protection not required.

## SECTION 9: Physical and Chemical Properties

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

**Appearance**                                      Liquid.

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<b>Colour</b>	Clear. Yellow.
<b>Odour</b>	Characteristic.
<b>pH</b>	pH (concentrated solution): 13.30
<b>Melting point</b>	0°C
<b>Initial boiling point and range</b>	100°C @
<b>Flash point</b>	Boils without flashing.
<b>Relative density</b>	1.032 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.

**9.2. Other information**

<b>Other information</b>	None.
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**SECTION 10: Stability and reactivity****10.1. Reactivity**

<b>Reactivity</b>	Reactions with the following materials may generate heat: Strong acids.
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**10.2. Chemical stability**

<b>Stability</b>	No particular stability concerns.
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**10.3. Possibility of hazardous reactions**

<b>Possibility of hazardous reactions</b>	See sections 10.1, 10.4 & 10.5
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**10.4. Conditions to avoid**

<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
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**10.5. Incompatible materials**

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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**10.6. Hazardous decomposition products**

<b>Hazardous decomposition products</b>	No known hazardous decomposition products.
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**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

<b>Toxicological effects</b>	We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.
<b>Other health effects</b>	Low oral toxicity, but ingestion may cause irritation of the gastro-intestinal tract.
<b>Acute toxicity - oral</b>	
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE oral (mg/kg)</b>	24,570.05

**SECTION 12: Ecological Information**

<b>Ecotoxicity</b>	Potentially hazardous due to the alkalinity of the product.
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### 12.1. Toxicity

#### **Toxicity**

We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request.

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility** Not known.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal by approved waste contractor. Rinse out empty container with water and consign to normal waste.

## SECTION 14: Transport information

### 14.1. UN number

<b>UN No. (ADR/RID)</b>	3266
<b>UN No. (IMDG)</b>	3266
<b>UN No. (ICAO)</b>	3266

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S (sodium hydroxide solution)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S (sodium hydroxide solution)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S (sodium hydroxide solution)

### 14.3. Transport hazard class(es)

**ADR/RID class** Class 8: Corrosive substances.

**ADR/RID label** 8

**IMDG class** Class 8 : Corrosive Substances.

**ICAO class/division** Class 8 : Corrosive Substances.

**T.S.R. 200****Transport labels****14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

EmS	F-A, S-B
Tunnel restriction code	(E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant. for a packaged product.

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

EU legislation	Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.
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**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

**SECTION 16: Other information**

<b>Abbreviations and acronyms used in the safety data sheet</b>	PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. IMDG: International Maritime Dangerous Goods. ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. GHS: Globally Harmonized System. Spec Conc Limits = Specific Concentration Limits.
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**T.S.R. 200**

<b>Classification abbreviations and acronyms</b>	Acute Tox. = Acute toxicity Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation
<b>Key literature references and sources for data</b>	Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Calculation Method.
<b>Revision comments</b>	Safety Data Sheet amended in accordance with REACH Commission Regulation (EU) No 2015/830 amendment. (Changes to Sections 2,3,15&16)
<b>Revision date</b>	01/08/2017
<b>Revision</b>	8
<b>SDS status</b>	The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this Product see Section 2.
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.