



**SAFETY DATA SHEET  
ST250**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name ST250

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

Identified uses Water treatment applications

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

Supplier ISS Technical Services  
Forge Lane  
Stoke-on-Trent  
ST1 5PZ  
Tel: 08444 068842  
Fax: 01782 284317  
Web: www.uk.issworld.com

**1.4. Emergency telephone number**

ISS Technical Services: 08444 068842 (Mon- Fri 9.00am - 5.00pm)

**SECTION 2: HAZARDS IDENTIFICATION**

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

**Classification (EC 1272/2008)**

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319
Environment	Not classified.

**Classification (1999/45/EEC)**

Xi;R36/38.

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

**2.2. Label elements**

Contains SODIUM HYDROXIDE

Label In Accordance With (EC) No. 1272/2008



Signal Word Warning

**Hazard Statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.

**Precautionary Statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313	If eye irritation persists: Get medical advice/attention.

**Supplementary Precautionary Statements**

P264	Wash contaminated skin thoroughly after handling.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P332+313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

**2.3. Other hazards**

This product does not contain any PBT or vPvB substances.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

<b>1-HYDROXY EYTHYLIDENE-1, 1-DIPHOSPHONIC ACID</b>		<b>1-5%</b>
<b>CAS-No.: 2809-21-4</b>	<b>EC No.:</b>	
Classification (EC 1272/2008) Skin Corr. 1B - H314	Classification (67/548/EEC) C;R34.	
<b>POTASSIUM SILICATE</b>		<b>10-30%</b>
<b>CAS-No.: 1312-76-1</b>	<b>EC No.: 215-199-1</b>	<b>Registration Number: 01-2119456888-17-XXXX</b>
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC) Xi;R36/37/38.	
<b>SODIUM HYDROXIDE</b>		<b>1-5%</b>
<b>CAS-No.: 1310-73-2</b>	<b>EC No.: 215-185-5</b>	
Classification (EC 1272/2008) Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35	
<b>TETRA POTASSIUM PYROPHOSPHATE</b>		<b>1-5%</b>
<b>CAS-No.: 7320-34-5</b>	<b>EC No.: 230-785-7</b>	
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.	
<b>TRISODIUM NITRILOTRIACETATE</b>		<b>1-5%</b>
<b>CAS-No.: 5064-31-3</b>	<b>EC No.: 225-768-6</b>	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Irrit. 2 - H319 Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40 Xn;R22 Xi;R36	

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****Inhalation**

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

**Ingestion**

Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention.

**Skin contact**

Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

**Eye contact**

Remove victim immediately from source of exposure. Immediately rinse with water for several minutes. Continue to rinse for at least 15 minutes and get medical attention.

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

May cause irritation to the respiratory system.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

Skin irritation. Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

Irritating to eyes. Irritating and may cause redness and pain.

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

Treat Symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

**5.2. Special hazards arising from the substance or mixture****Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

**Specific hazards**

The product is non-combustible. If heated, irritating vapours may be formed. Keep containers exposed to fire cool with waterspray.

**5.3. Advice for firefighters****Special Fire Fighting Procedures**

Keep run-off water out of sewers and water sources. Dike for water control.

**Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet. For personal protection, see section 8.

**6.2. Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. If product contaminates rivers and lakes or drains inform respective authorities.

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

Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

**6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid spilling, skin and eye contact. Avoid eating, drinking and smoking when using the product.

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

Keep upright. Store in tightly closed original container in a dry and cool place.

**Storage Class**

Chemical storage.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SODIUM HYDROXIDE	WEL				2 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**8.2. Exposure controls****Protective equipment****Process conditions**

Use engineering controls to reduce air contamination to permissible exposure level.

**Respiratory equipment**

If ventilation is insufficient, suitable respiratory protection must be provided.

**Hand protection**

Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Eye protection**

Wear approved safety goggles.

**Other Protection**

Wear suitable protective clothing as protection against splashing or contamination.

**Hygiene measures**

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless. to Off white.
<b>Odour</b>	Slight odour.
<b>Solubility</b>	Soluble in water.
<b>Relative density</b>	1.2 - 1.30
<b>pH-Value, Conc. Solution</b>	11.5 - 12.5

**9.2. Other information**

No further information available

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

None known.

**Hazardous Polymerisation**

Will not polymerise.

**10.4. Conditions to avoid**

Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials****Materials To Avoid**

Strong acids. Strong alkalis. Strong oxidising substances. Soft metals.

**10.6. Hazardous decomposition products**

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Inhalation**

Inhalation of spray mists may cause irritation.

**Ingestion**

May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**

Irritating to skin.

**Eye contact**

Irritating to eyes.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.1. Toxicity**

Adopt good working practices so that the product is not released into the environment.

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No evidence of bio-accumulation.

**12.4. Mobility in soil****Mobility:**

The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

Not applicable.

**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**Waste Class**

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

**SECTION 14: TRANSPORT INFORMATION**

## ST250

### General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

##### Transport Labels

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### Environmentally Hazardous Substance/Marine Pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

##### Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

##### EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

Revision Date 20/01/2013

Revision 1

##### Risk Phrases In Full

R34	Causes burns.
R35	Causes severe burns.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R40	Limited evidence of a carcinogenic effect.

## ST250

### Hazard Statements In Full

H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

### Disclaimer

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health & Safety legislation. , This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.