



# Systempurge MATERIAL SAFETY DATA SHEET

RS Hygiene Limited, The Street, Worlington, Suffolk IP28 8RX  
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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name SYSTEM PURGE  
Chemical characterisation Caustic Soda Solution > 5%  
Synonym(s) Sodium Hydroxide solution  
Supplied by: RS Hygiene Ltd, The Street, Worlington, Suffolk IP28 728  
Tel: 01638 714 444 Fax: 08707 628 728

Use of the substance/preparation

Recommended uses Agriculture industry

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	% Conc	Classification	Exposure	CAS	EINECS
Sodium Hydroxide	>5	C;R35	2mg/m <sup>3</sup>	1310-73-2	215-185-5

## 3. HAZARDS IDENTIFICATION

Corrosive and caustic.

Causes severe injuries in cases of contact with eyes, inhalation or ingestion. Will cause deep ulceration with subsequent scarring.

## 4. FIRST-AID MEASURES

Exposure Route	Symptom	Treatment
Inhalation	Svere irritation of airways.	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact	Irritation, blistering.	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.
Eye Contact	Pain, reddening, watering.	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion	Stomach upset, burns to the gastrointestinal tract.	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishers: Use extinguisher suitable to cause of fire.  
Hazardous Combustion Products: Not flammable.  
Special Equipment for Fire Fighting: Wear protective clothing. Self contained breathing apperattus.

## 6. ACCIDENTAL RELEASE MEASURES

Safety Precautions: Wear appropriate PPE (SEE 8)  
Environmental Precautions: Do not allow material to contaminate drains or watercourses. Inform appropriate authority of any release to water courses.  
Clean up Procedure: Where possible, transfer to a suitable container for reuse or waste disposal. Diluteresidue with plenty of water and cautiously neutralize with a weak acid solution then flush to drain with plenty of water.

## 7. HANDLING & STORAGE

Handling  
Ventilation: Good general ventilation.  
Recommended procedures & equipment: Use only materials resistant to strong alkali. Avoid direct contact with the product.  
Storage  
Temperature range: Ambient.  
Humidity range: Dry.  
Keep away from: See section 10  
Suitable storage Media: Plastics, mild steel

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## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits	2 mg/m <sup>3</sup> STEL	Type OES
Protective Measures		
Respiratory:	Type approved RPE for mists if OES is likely to be exceeded.	
Hand:	Gloves.	
Eye:	Goggles.	
Skin:	Overalls, apron and boots.	
Hygiene Measures:	Always wash thoroughly after handling chemicals.	

## 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Colourless liquid.
PH	>11.5 @ 1% solution
Boiling Point/range	>100°C
Flammability	Not Flammable.
Relative density	1.05 - 1.55 dependant on grade.
Solubility	in water miscible in all proportions.

## 10. Stability & Reactivity.

Stability:	Stable, absorbs moisture and carbon dioxide.
Conditions to avoid:	Do not use arc welding equipment on tanks or pipes containing product.
Known Hazardous reactions:	Evolves hydrogen in contact with aluminium and zinc.
Materials to avoid:	Acids; Aluminium; Zinc, Chlorinated hydrocarbons.

## 11. Toxicological Information.

Effects:	Ingestion may result in perforation of digestive tract, haemorrhage and severe burns to mouth and throat. Inhalation of mists may result in severe burns to the respiratory tract. Eye contact may result in severe burns causing permanent eye damage. Skin contact may result in severe burns which are slow to heal. Prolonged or repeated exposure to solutions may result in dermatitis..
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## 12. Ecological Information.

Environmental Effects:	Concentrations sufficient to render effluent alkaline may cause damage to effluent organisms.
Mobility:	Water soluble liquid with low volatility
Degradability:	Degrades readily by reaction with natural Carbon Dioxide.
Aquatic Toxicity:	Concentrations greater than 10ppm or a pH value above 10.5 may be fatal to fish and other aquatic organisms.

## 13. Disposal considerations.

Substance:	Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations. Waste containing mercury will require disposal in an EPA licensed facility.
Container:	As substance.

## 14. Transport Information.

UN number	1824	ADR Class/Item No. 8, 42°(b)
Primary Hazard	Corrosive	
Packing Group	II	
Emergency Action Code	2R	
H.I. Number	80	

## 15. Regulatory Information.

Supply label details	Ref. CHIP '97
Label Name:	Sodium Hydroxide
Symbols:	Corrosive
Risk Phrases:	35 Causes severe burns.
Safety Phrases:	26 - 37/39 - 45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
E.E.C. No	215-185-5
Users are advised to consult these regulations for further information. The information contained in this data sheet does not constitute an assessment of workplace risks.	

## 16. Other Information.

Legal Disclaimer: The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.