SAFETY DATA SHEET

Revision:

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

1.1 Product identifier

- Product Name: CRYSTAL RINSE
- Product Part Number: CRYS

1.2 Relevant identified uses of the substance or mixture and uses advised against - Use of the substance/mixture: Acidic polymer rinse. Cleaning agent- professional use 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: SOLUTION WORLD OF CLEAN LTD
- Address of Supplier: UNIT 1 WARREN ROAD INDIAN QUEENS CORNWALL TR9 6TL UK
- Telephone: +44(0)1209 204343
- Responsible Person: N. ROBERTSON-VOUSDEN
- Email: Operations@solution-uk.com

1.4 Emergency telephone number

- Emergency Telephone: +44(0)1209 204343 (8.30am - 5pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Irrit. 2, Eye Dam. 1

2.2 Label elements

GHS05

- Signal Word: Danger
- Hazard statements
  H315 - Causes skin irritation.
  H318 - Causes serious eye damage.
- Precautionary statements
  P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P310 - Immediately call a POISON CENTER or doctor/physician.
  P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
  P332+P313 - If skin irritation occurs: Get medical advice/attention.
  P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

SECTION 2: Hazards identification (....)

- Contains: REACTION PRODUCT OF BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS. AND BENZENESULFONIC ACID, 4-METHYL- AND SODIUM HYDROXIDE

SECTION 3: Composition/information on ingredients

3.2 Mixtures

- SODIUM (XYLENES AND 4-ETHYLBENZENE) SULFONATE
  CAS Number:
  EC Number: 701-037-1
  Concentration: 1-3%
  Categories: Eye Irrit. 2
  Symbols: GHS07
  H Statements: H319
- REACTION PRODUCT OF BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS. AND BENZENESULFONIC ACID, 4-METHYL- AND SODIUM HYDROXIDE CAS Number:
  EC Number: 932-051-8
  Concentration: 1-3%
  Categories: Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3
  Symbols: GHS05
  H Statements: H315, H318, H412
- 1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)
  CAS Number: 160875-66-1
  EC Number:
  Concentration: 1-3%
  Categories: Acute Tox. 4, Eye Dam. 1
  Symbols: GHS05, GHS07
  H Statements: H302, H318
- HYDROCHLORIC ACID
  CAS Number:
  EC Number: 231-595-7
  Concentration: 0-1%
  Categories: Skin Corr. 1B, STOT SE 3
  Symbols: GHS05;GHS07
  H Statements: H335;H314

SECTION 4: First aid measures

4.1 Description of first aid measures

- Contact with eyes
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Contact with skin
  IF ON SKIN: Wash with plenty of soap and water.

SECTION 4: First aid measures (....)

If skin irritation occurs: Get medical advice/attention.

- Ingestion
  Do not induce vomiting
  Give plenty of water to drink
  Get medical advice/attention.

- Inhalation
  Remove person to fresh air and keep comfortable for breathing.
  Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- No information available

4.3 Indication of any immediate medical attention and special treatment needed - Immediately call a POISON CENTER or doctor/physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire

5.3 Advice for firefighters

- Wear Breathing Apparatus

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

6.2 Environmental precautions

- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Absorb spillage in suitable inert material
- Remove contaminated material to safe location for subsequent disposal
- Flush spill area with copious amounts of water

6.4 Reference to other sections

- See Section 13 for disposal

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective gloves/protective clothing/eye protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, in a cool, well ventilated place

7.3 Specific end use(s)

SECTION 7: Handling and storage (....)

See section 1

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- SODIUM (XYLENES AND 4-ETHYLBENZENE) SULFONATE
  DNEL (Industry; dermal, long term systemic effects): 7.6 mg/kg/day
  DNEL (Industry; inhalational, long term systemic effects): 53.6 mg/m³
  DNEL (Consumer; dermal, long term systemic effects): 3.8 mg/kg/day
  DNEL (Consumer; inhalational, long term systemic effects): 13.2 mg/m³
- REACTION PRODUCT OF BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS. AND BENZENESULFONIC ACID, 4-METHYL- AND SODIUM HYDROXIDE
  DNEL (Industry; dermal, long term systemic effects):
  DNEL (Industry; inhalational, long term systemic effects):
  DNEL (Consumer; dermal, long term systemic effects):
  DNEL (Consumer; inhalational, long term systemic effects):
- HYDROCHLORIC ACID
  DNEL (Industry; dermal, long term systemic effects):
  DNEL (Industry; inhalational, long term systemic effects):
  DNEL (Consumer; dermal, long term systemic effects):
  DNEL (Consumer; inhalational, long term systemic effects):
  Long-term exposure limit (8-hour TWA):
  Short-term exposure limit (15minute):

8.2 Exposure controls

- Wear protective gloves/protective clothing/eye protection/face protection.

Gloves Goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Clear to hazy liquid
- Odour: Bouquet
- Boiling Point/Range: >100 deg C
- Density: >1.0 g/cm³ at 20 °C
- Flashpoint: Not applicable
- pH: 2.0-3.0 at 100 % concentration

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

SECTION 10: Stability and reactivity (....)

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

- Incompatible with strong oxidizing substances

10.6 Hazardous decomposition products

- Decomposition products may include carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Causes skin irritation and potential eye damage

- SODIUM (XYLENES AND 4-ETHYLBENZENE) SULFONATE
  LD_{50} (oral, rat): >7200 mg/kg
  LD_{50} (dermal, rabbit): >2000 mg/kg

- REACTION PRODUCT OF BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS. AND BENZENESULFONIC ACID, 4-METHYL- AND SODIUM HYDROXIDE
  LD_{50} (oral, rat): 2000-5000 mg/kg
  LD_{50} (dermal, rabbit):
  LD_{50} (skin, rat): >2000 mg/kg

- 1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)
  LD_{50} (oral, rat): 300-2000mg/kg
  LD_{50} (dermal, rabbit):

SECTION 12: Ecological information

12.1 Toxicity

- SODIUM (XYLENES AND 4-ETHYLBENZENE) SULFONATE
  EC_{50} (daphnia): >1000 mg/l (48 hr)
  LC_{50} (fish): >1000 mg/l (96 hr)
  EC_{50} (daphnia): >1000 mg/l (48 hr)
  LC_{50} (fish): >1000 mg/l (96 hr)
  PNEC (Fresh water): 0.23 mg/l
  PNEC (STP): 100 mg/l

- REACTION PRODUCT OF BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS. AND BENZENESULFONIC ACID, 4-METHYL- AND SODIUM HYDROXIDE
  EC_{50} (daphnia): >1-10 mg/l (48 hr)
  LC_{50} (fish): 1-10 mg/l (96 hr)
  PNEC (Fresh water): 0.268 mg/l

SECTION 12: Ecological information (....)

PNEC (STP): 5.6 mg/l
EC_{50} (daphnia): >1-10 mg/l (48 hr)
LC_{50} (fish): 1-10 mg/l (96 hr)
PNEC (Marine water): 0.0268 mg/l

- 1-HEPTANOL, 2-PROPYL-,ETHOXYLATED (> 5 - <=10 EO)

EC_{50} (daphnia):
LC_{50} (fish):
PNEC (Fresh water):
PNEC (STP):
IC_{50} (algae): Unknown mg/l (72 hr)
EC_{50} (daphnia): >100 mg/l (48 hr)
LC_{50} (fish): >100 mg/l (96 hr)

12.2 Persistence and degradability

- Biodegradable

12.3 Bioaccumulative potential

- Low bioaccumulation potential

12.4 Mobility in soil

- miscible with water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

SECTION 14: Transport information

14.1 UN number or ID number

- UN No.:
- Not applicable

14.2 UN proper shipping name

- Proper Shipping Name:

14.3 Transport hazard class(es)

- Hazard Class:

14.4 Packing group

- Packing Group:

14.5 Environmental hazards

SECTION 14: Transport information (....)

14.6 Special precautions for user

- Not Classified

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 - The Chemicals (Hazard Information and Packaging) Regulations applies in the UK

15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H412: Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Goods by Road
ATE Acute Toxicity Estimate
CAS Chemical Abstracts Service
CHIP Chemicals (Hazard Information and Packaging) Regulations—Directives 1999/45.EC and 67/548/EC
CLP Classification and Labelling of Chemicals—Regulation (EC) No. 1272/2008
CMR Carcinogenic-Mutagenic-Toxic for reproduction
DNEL Derived No Effect Level
EINECS European Inventory of Existing Commercial Chemical Substances
GHS Globally Harmonised System of Classification and Labelling of Chemicals
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods Code
LC50 Lethal Concentration, 50%
LD50 Lethal Dose, 50%
MARPOL International Convention for the Prevention of Pollution From Ships
NOEC No Observed Effect Concentration
NOAEL No Observed Adverse Effect Level
OEL Occupational Exposure Limit
PBT Persistent, Bioaccumulative, Toxic
PNEC Predicted No Effect Concentration
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB very Persistent, very Bioaccummulative
RID Convention concerning International Carriage by Rail
STP Sewage Treatment Plants
WEL Workplace Exposure Limit
VOC Volatile Organic Compound

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