
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Crystal Three-in-one
- Product Part Number: W-CRY3

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

- Use of the substance/mixture: Machine glass washing detergent., Glass and ware washing machine renovator.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Chemisphere UK Ltd
- Address of Supplier: Unit 4 Richmond Road
Trafford Park
Manchester
M17 1RE
- Telephone: +44 (0) 161 874 7200
- Responsible Person: Wilfred Worsley
- Email: safetydata@chemisphereuk.co.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 776 724 8499
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Corr. 1A

2.2 Label elements



GHS05

- Signal Word: Danger
- Hazard statements
Causes severe skin burns and eye damage.
- Precautionary statements
Keep out of reach of children.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

SECTION 2: Hazards identification (....)

Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Get medical advice/attention if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

If skin irritation occurs: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

Contains: Potassium hydroxide
Sodium Metasilicate Pentahydrate

- Supplemental Hazard information (EU)
None

2.3 Hazards identification

- Not a PBT according to REACH Annex XIII
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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

- Potassium hydroxide
CAS Number: 1310-58-3
EC Number: 215-181-3
Concentration: 1 - 20%
Categories: Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1
Symbols: GHS05;GHS07
H Statements: H302;H314
- Sodium metasilicate pentahydrate
CAS Number: 10213-79-3
EC Number: 229-912-9
Concentration: <5%
Categories: Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3
Symbols: GHS05;GHS07
H Statements: H290;H314;H335
- Tetrapotassium pyrophosphate TKPP
CAS Number: 7320-34-5
EC Number: 230-785-7
Concentration: 1 - 10%
Categories: Eye Irrit. 2
Symbols: GHS07
H Statements: H319
- Etidronic acid
CAS Number: 2809-21-4
EC Number:
Concentration: <1%

SECTION 3: Composition/information on ingredients (....)

Categories: Met. Corr. 1, Acute Tox. 4, Eye Dam. 1

Symbols: GHS05

H Statements: H302;H318;H290

- C6 Alkyl glucoside

CAS Number: 54549-24-5

EC Number: 259-217-6

Concentration: 1 - 10%

Categories: Eye Dam. 1

Symbols: GHS05

H Statements: H318

- 2-Ethylhexanol ethoxylate

CAS Number: 26468-86-0

EC Number:

Concentration: <5%

Categories: Eye Irrit. 2

Symbols:

H Statements: H319

- Sodium dodecylbenzenesulphonate

CAS Number: 25155-30-0

EC Number: 246-680-4

Concentration: <0.00001%

Categories: Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 3

Symbols: GHS05

H Statements: H315,H318,H412

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

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
 - Causes severe burns
 - Risk of serious damage to eyes
 - May cause permanent damage if eye is not immediately irrigated.
 - Ingestion
 - Causes severe burns
 - Causes damage to the digestive tract if swallowed
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SECTION 4: First aid measures (....)

- Inhalation
Corrosive to the respiratory tract.
Can cause damage to the respiratory system
- Contact with skin
Corrosive to skin
Causes severe burns

4.3 Indication of any immediate medical attention and special treatment needed

- If medical advice is needed, have product container or label at hand.
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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 chemical protection suit and breathing apparatus
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes
- Avoid breathing dust/fume/gas/mist/vapours/spray.

6.2 Environmental precautions

- For large spills: Do not allow product to enter drains. For small spills: Flush down the drain with plenty of water.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up

6.4 Reference to other sections

- Wear protective clothing as per section 8
-

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective gloves/protective clothing/eye protection/face protection.
 - Avoid contact with skin and eyes
 - Do not breathe vapour/fumes
 - Do not mix with any other products
 - Proper chemicals handling procedures should be adopted
 - Handle and open container with care
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SECTION 7: Handling and storage (....)

- Ensure adequate ventilation

7.2 Conditions for safe storage, including any incompatibilities

- Keep locked up and out of reach of children
- Keep only in the original container in a cool, well ventilated place
- Protect from sunlight.

7.3 Specific end use(s)

- Washing drinking glasses in a cabinet glass washing machine.
 - Renovation of drinking glasses and ware washing machines.
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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

- Potassium hydroxide
WEL: 2 mg/m³
DNEL (Industry; inhalational, long term local effects): 1 mg/m³
DNEL (Consumer; inhalational, long term local effects): 1 mg/m³
- Sodium metasilicate pentahydrate
DNEL (Industry; dermal, long term local effects): 1.49 mg/kg/day
DNEL (Industry; inhalational, long term local effects): 6.22 mg/m³
DNEL (oral): 0.74 mg/kg/day
- Tetrapotassium pyrophosphate TKPP
DNEL (oral): > 70 mg/kg
DNEL (Industry; inhalational, long term systemic effects): 2.79 mg/m³
DNEL (Consumer; inhalational, long term systemic effects): 0.68 mg/m³
- Etidronic acid
DNEL (oral): 13 mg/kg/day
- C6 Alkyl glucoside
DNEL (oral): 35.7 mg/kg
DNEL (Consumer; dermal, long term systemic effects): 357000 mg/kg
DNEL (Consumer; inhalational, long term systemic effects): 124 mg/m³
DNEL (Industry; dermal, long term systemic effects): 595000 mg/kg
DNEL (Industry; inhalational, long term systemic effects): 420 mg/m³

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**

SECTION 9: Physical and chemical properties (....)

- Appearance: Liquid, amber
- Odour: Odourless
- pH: >13
- Density: 1.13 g/cm³ at 20 deg C
- Conductivity: Not available
- Solubility in water: Soluble in water
- Flammability: Not flammable

9.2 Other information

- No information available
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SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts with acid

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

- Keep away from heat, light and moisture

10.5 Incompatible materials

- Avoid contact with acid
- Avoid contact with aluminium
- Avoid contact with zinc
- Avoid contact with tin

10.6 Hazardous decomposition products

- No hazardous decomposition products known
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SECTION 11: Toxicological information

11.1 Contact with eyes

- Causes serious eye damage.

11.2 Ingestion

- Causes damage to the digestive tract
- Causes damage to the stomach lining

11.3 Inhalation

- Corrosive to the respiratory tract.

11.4 Contact with skin

- Causes severe burns
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SECTION 11: Toxicological information (....)**11.5 Information on toxicological effects**

- Potassium hydroxide
LD50 (oral, rat): 333 mg/kg
- Tetrapotassium pyrophosphate TKPP
LD50 (dermal, rabbit): > 2000 mg/kg
LD50 (oral, rat): > 2000 mg/kg
- Etidronic acid
LD50 (dermal, rabbit): 6000 mg/kg
LD50 (oral, rat): 1.878 mg/kg
- C6 Alkyl glucoside
LD50 (dermal, rabbit): > 2000 mg/kg
LD50 (oral, rat): > 2000 mg/kg
- 2-Ethylhexanol ethoxylate
LDLo (oral) : > 2000 mg/kg
- Sodium dodecylbenzenesulphonate
LDLo (oral) : > 2000 mg/kg
LD50 (dermal) : > 2000 mg/kg
LD50 (oral, rat): 2000 - 5000 mg/kg

SECTION 12: Ecological information**12.1 Toxicity**

- Sodium gluconate
EC50 (daphnia): 5000 mg/l (48 hr)
LC50 (fish): 10000 mg/l (96 hr)
- Potassium hydroxide
EC50 (daphnia): 40-240 mg/l (48 hr)
LC50 (fish): 80 mg/l (96 hr)
- Sodium metasilicate pentahydrate
EC50 (daphnia): 1700 mg/l (48 hr)
LC50 (fish): 210 mg/l (96 hr)
- Tetrapotassium pyrophosphate TKPP
IC50 (algae): >100 mg/l (72 hr)
EC50 (daphnia): >100 mg/l (48 hr)
LC50 (fish): >100 mg/l (96 hr)
- Etidronic acid
LC50 (fish): 868 mg/l (96 hr)
- C6 Alkyl glucoside

SECTION 12: Ecological information (....)

IC50 (algae): >100 mg/l (72 hr)
EC50 (daphnia): >100 mg/l (48 hr)
LC50 (fish): >100 mg/l (96 hr)

- 2-Ethylhexanol ethoxylate
IC50 (algae): 1-10 mg/l (72 hr)
EC50 (daphnia): 1-10 mg/l (48 hr)
LC50 (fish): 10-100 mg/l (96 hr)
- Polydimethyl siloxane
EC50 (daphnia): 200 mg/l (48 hr)
- Sodium dodecylbenzenesulphonate
EC50 (daphnia): 0.16 mg/l (48 hr)
LC50 (fish): 0.19 mg/l (96 hr)

12.2 Persistence and degradability

- Not readily biodegradable

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- Soluble in 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
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
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SECTION 14: Transport information**Corrosive****14.1 UN number**

- UN No.: 3266

14.2 Proper Shipping Name

- Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide)
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SECTION 14: Transport information (....)

14.3 Transport hazard class(es)

- Hazard Class: 8

14.4 Packing group

- Packing Group: II.

14.5 Environmental hazards

- None assigned

14.6 Special precautions for user

- Identification Number: 80
- IMDG EmS: F-A, S-B
- Tunnel Code: (E)
- Contains: Potassium hydroxide

14.7 Emergency Action Code

- 2R

14.8 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable
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SECTION 15: Regulatory information

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

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- 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. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H412: Harmful to aquatic life with long lasting effects.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.

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