

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

Printing Date 16 December 2013	Crystal		lssue 1 Revision 22 April 201
1 Identification of the substance/m	,	ndertaking	Newsion 22 April 201
1.1 Product Identifier	Product Name	Crystal	
	Product Codes	1333	
1.2 Relevant identified uses of the subs	stance or mixture and uses advis	ed against	
Identified Uses of the substance/mixture	Manual Dishwash and Warewas	-	essional Use.
Uses advised against	None Identified	-	
1.3 Details of the supplier of the safety	data sheet		
Manufacturer/Distributor	RP Adam Ltd Arpal Works Riverside Road Selkirk, TD7 5DU, UK	Tel. Fax. email	+44 (0) 1750 21586 +44 (0)1750 21506 Salesinfo@rpadam.co.uk
1.4 Emergency Telephone Number			
National Advisory Body/Poison Centre			
Tel.	National Poison Information Service 0870 243 2241 (UK Only)		
	(0870 600 6266 Medical Profess	sionals Only – UK C	Only)
Manufacturer/ Distributor/ Importer			
Telephone number:	+ 44 (0)1750 21586		
2 Hazards Identification			
2.1 Classification of Substance or mixtu	ire		
Product Definition	Mixture		
Classification according to Directive 19	99/45/EC [DPD]		
Classification	The product does not meet the 1999/45/EC and corresponding		ation in accordance with Directive
Human Health Hazards			
Environmental Hazards			

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label Elements

Hazard Symbol(s) Indication of danger Risk Phrases

Safety Phrases

2.3 Other hazards

Other hazards which do not result in classification

Not applicable

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3 Composition/Information on Ingredients

3.2 Mixtures

			Classification		
Product/Ingredient Name	Identifiers Reach No/CAS/EC No	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Benzenesulfonic Acid, Mono-C10-13-	Not Available/	5-15	Xn; R22	Eye Dam. 1 (H318)	1
Alkyl Derivs., Compds. With	85480-56-4/		Xi; R38 R41	Acute Tox. 4 (H302)	
Triethanolamine	287-336-3			Skin Irrit. 2 (H315)	
Sodium C10-C16 Alkyl Ethoxy Sulphate	Not available/	1-5	Xi; R38 R41	Skin Irrit. 2 (H315)	1
	68585-34-2/			Eye Dam. 1 (H318)	
	500-223-8				
2-Benzyl-4-Chlorophernol	Not Available/	1-5	Xi; R38 R41	Skin Irrit. 2 (H315)	1
	120-32-1/		N: R50/53	Eye Dam. 1 (H318)	
	204-385-8		-	Aquatic Acute 1 (H400)	
				Aquatic Chronic 1 (H410)	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

- 1 Substance classified with a health or environmental hazard
 - 2 Substance with a workplace exposure limit
 - 3 Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 - 4 Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

4 First aid measures

Туре

4.1 Description of first aid measures

Eye Contact	Rinse immediately with copious amounts of water. If irritation develops get medical attention
Inhalation	Inhalation in unlikely in normal use.
Skin Contact	Wash off immediately with plenty of water. If irritation develops get medical attention
Ingestion	If conscious, remove product from mouth, give casualty a small quantity of water or milk
	to drink and seek medical advice. Do not induce vomiting
Protection of First Aider	Wear PPE if appropriate (Refer to section 8.2)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Irritations are most likely symptoms when there is exposure to skin and eye. Not considered to cause sensitization. Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Treat according to symptoms (decontamination, vital functions). Toxicological information on components, where available, in given in section 11.

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5 Fire fighting measures	
5.1 Extinguishing media	
Extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog
Unsuitable extinguishing media	None known
5.2 Special hazards arising from the	substance or mixture
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	During fire toxic gases, CO and CO_2 are formed
5.3 Advice for fire-fighters	
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if
	there is a fire. No action shall be taken involving any personal risk or without suitable
	training.
Special protective equipment for fire-	Fire-fighters should wear self-contained breathing apparatus and suitable personal
fighters	protective equipment as appropriate to the surrounding fire.

6 Accidental release measures

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6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray/mist. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, section 8.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Small spill:	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill	Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7 Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with the skin, eyes and clothing. Contaminated surfaces may be extremely slippery. Clean up spillages. Do not allow to dry. Do not eat, drink or smoke in area where material is used or stored.

7.2 Conditions for safe storage, including any incompatibilities

Protect against heat. Store in original labelled containers. Keep container tightly closed, upright and in a cool place. Protect from freezing.

7.3 Specific end use(s)

Recommendations	Not specific advice available.
Industrial sector specific solutions	Not applicable.

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8 Exposure controls/personal protection		
8.1 Control parameters		
Occupational exposure limits	Exposure limit values	
Product/ingredient name Contains no ingredients with set exposure	-	
Derived effect levels No DNELs available for the mixture Predicted effect concentrations No PNECs available for the mixture.		
8.2 Exposure controls		
Process conditions	Provide eye-wash stations	
Engineering Measures	The concentrated product is intended to be used via a dispensing system to avoid splashes and contact with the skin. Wear appropriate PPE if contact is possible when connecting to disdpenser. Airborne vapours or mists are not anticipated in normal use.	
Personal Protective Equipment		
Respiratory protection:	Not needed in normal use.	
Hand protection	Wear chemical resistant protective gloves (EN 374) Review condition of gloves when in use, especially for wear, cuts and breakthrough after prolonged contact.	
Eye protection	Not needed in normal use.	
Body protection:	Not needed in normal use.	
General safety and bygiene measures		

General safety and hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9 Physical & chemical properties			
9.1 Information on basic physical and chemical properties			
Physical state	Viscous Liquid.		
Colour	Clear, Green		
Odour	Lemon.		
Odour threshold	Not determined for the mixture.		
pH value 20 Deg C	6.5 – 7.5 (at 100%)		
Melting point/Freezing point	Not determined for the mixture.		
Initial boiling point and boiling range	Not determined for the mixture.		
Flash point	>100 deg C		
Evaporation rate	Not determined for the mixture.		
Flammability (solid, gas)	Not flammable.		
Burning time	Not determined for the mixture.		
Burning rate	Not determined for the mixture.		
Upper/lower flammability or explosive	Not determined for the mixture.		
limits			
Vapour pressure	Not determined for the mixture.		
Relative density	1.020-1.030		
Solubility(ies)	Readily soluble in cold and hot water		
Partition coefficient: n-octanol/water	Not determined for the mixture.		
Auto ignition temperature	Not determined for the mixture.		
Decomposition temperature	Not determined for the mixture.		
Viscocity Fprd Flowcup No.4	60-90 Seconds		
Explosive properties	Not explosive		
Oxidising properties	None		
9.2 Other Information			
No further relevant information available			

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10 Stability and Reactivity	
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical Stability	Stable mixture under normal conditions or storage and use.
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur in normal storage conditions.
10.4 Conditions to avoid	None known in normal storage conditions.
10.5 Incompatible materials	None known
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicology

11.1 Information on toxicological effects

Toxicological data for this mixture is not available as animal toxicity studies have not been carried out. Toxicological data for the raw materials is, where provided by the manufacturer, available on request.

12 Ecological information

12.1 Toxicity

Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out. Ecological Toxicity data for the raw materials is, where provided by the manufacturer, available on request.

12.2 Persistence and degradability	
Conclusion/Summary	Any surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC
12.3 Bioaccumulative potential	
Conclusion/Summary	Not determined for the mixture.
12.4 Mobility in soil	
Soil/water partition coefficient (KOC)	Not determined for the mixture.
Mobility	Not determined for the mixture.
12.5 Results of PBT and vPvB assessn	nent
РВТ	Not applicable.
vPvB	Not applicable.
12.6 Other adverse effects	No known significant effects or critical hazards.

13: Disposal considerations	
13.1 Waste treatment methods	
Waste from residues / unused products	Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.
	EWC Code 20 01 29* - detergents containing dangerous substances
Empty packaging recommendation:	Dispose of observing national or local regulations. (Can be cleaned with water)
	EWC Code 20 01 39

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14: Transport information				
	ADR/RID	ADN/ADNR	IMDG	ΙΑΤΑ
14.1 UN number	None	None	None	None
14.2 UN proper shipping name	Not Required	Not Required	Not Required	Not Required
14.3 Transport hazard class(es):	Not considered to be hazardous for transport			

Not Required	Not Required	Not Required	Not Required	
None	None	None	None	
None known	None known	None known	None known	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode			Product not transported bulk tanker	
lot required				
	None None known Ex II of MARPOL 73	None None None known None known None known None known	None None None None None None None thrown None known No known None known No known None known None k	

15: Regulatory information				
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
Ingredients according t	o EC Detergents Regulation 648/2004			
5-15%	Anionic surfactants			
<5	Non-Ionic surfactants			
	Disinfectants			
Contains	1,2-benzisothiazol-3-one			
	2-methyl-2H-isothiazol-3-one			
	Alpha Pinene			
	Citral			
	Limonene			
	Terpinolene			
15.2 Chemical safety as	sessment			
A chemical safety assessm	ent has not been carried out on the mixture			

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16: Other information

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-	nent is based on our best present knowledge. However, it does not constitute a guarantee for and does not establish a legally binding contract	
Reason for revision:	Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II	
Full text of the R, H and EUH	phrases mentioned in section 3	
R36	Irritating to eyes	
R22	Harmful if swallowed	
R38	Irritating to skin	
R41	Risk of serious damage to eyes	
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
R11	Highly flammable	
R67	Vapours may cause drowsiness and dizziness	
H319	Causes serious eye irritation	
H318	Causes serious eye damage	
H302	Harmful if swallowed	
H315	Causes skin irritation	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H412	May cause long lasting harmful effects to aquatic life	
H225	Highly flammable liquid and vapour	
H336	May cause drowsiness or dizziness	
Abbreviations and acronyms		
ATE	Acute Toxicity Estimate	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]	
DNEL	Derived No Effect Level	
EUH statement	CLP-specific Hazard statement	
PNEC	Predicted No Effect Concentration	
REACH No	REACH registration number, without supplier specific part	