

1. CHEMICAL PRODUCT AND COMPANY INFORMATION**Product Identity : CKRA4/RT Mono RA4 Developer**

Producer / Distributor : Jay House Ltd, Unit 6b, Park Lane Ind. Estate,
Corsham, Wiltshire SN13 9LG, UK.
Tel: +44 (0)1249 714555
email: tech@fotospeed.com

2. COMPOSITION / INGREDIENT INFORMATION

This is a liquid preparation of mainly organic compounds dissolved in water

The main ingredients are :

Chemical Name and %w/w

Symbol letter	R-Phrases	S-Phrases	EINEC No	CAS No
Potassium carbonate	10-20%			
Xn	R22-36	2095293	584-08-7	
1,2-Ethanedio	25-50%			
Xn	R22	2034733	107-21-1	
Benzylalcohol	1-5%			
Xn	R20/22	2028599	100-51-6	
Diethylhydroxylamine	1-5%			
Xi	R10-36/37/38	2230554	3710-84-7	
CD-4	1-5%			
T	R22-6/38-43	2471620	25646-77-9	

3. HAZARD IDENTIFICATION**Harmful:**

Harmful if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.

4. FIRST AID MEASURES

Eye contact: In case of contact with eyes, rinse immediately with plenty of water (15 minutes) and seek medical advice.

Skin contact: After contact with skin wash immediately with plenty of water and soap

Inhalation: -

Ingestion: If swallowed, do not induce vomiting; seek medical advice immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam, powder, CO₂, water.

Unsuitable extinguishing media : All extinguishing media allowed.

Special exposure hazards : If product is involved in a fire, CO₂ and/or CO may be formed

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :-

Environmental precautions : Small spills can be flushed down the drain with copious amounts of water.

Methods for cleaning up : Absorb spilled material and dispose of as special waste

7. HANDLING AND STORAGE

Handling :

Industrial hygiene: When using do not eat, drink or smoke.

Storage: Keep container at a temperature below 30°C.

Ventilation: 12 to 15 air changes per hour in work area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Under normal working conditions not necessary

Eye protection: Wear eye/face protection.

Hand protection: Wear suitable gloves.

Skin protection: Remove contaminated clothing immediately

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Yellowish green
Odour	: amine like
Boiling point/range	: >100°C
Melting point/range	: <0°C
Flash point	: n.a
Ignition temperature	: n.a
Flammability (solid/gas)	: n.a
Autoflammability	: n.a
Explosive properties	: n.a
Oxidising properties	: -
Vapour pressure (38° C)	: -
Relative Density (20° C)	: 1.24-1.26
pH value (concentrate) (20° C)	: 10.8-11.2
pH value (1+4) (20° C)	: 10.4-10.8
Solubility in water (20° C)	: 100%
Viscosity	: -

10. STABILITY AND REACTIVITY

Conditions to avoid :-

Materials to avoid : Avoid contact with oxidising agents and strong acids

Hazardous decomposition products : When involved in fire or handled incorrectly there is a possibility that CO₂ & CO will be generated.

11. TOXICOLOGICAL INFORMATION

Acute toxicity :

Potassium carbonate EINECS 2095293
 LD50 (oral, rat) 1870mg/kg

1,2-Ethanediol EINECS 2034733
 LD50 (oral, rat) 4700mg/kg

LD50 (dermal, rat/rabbit) 9530mg/kg

Benzylalcohol EINECS 2028599
 LD50 (oral, rat) 1230mg/kg

LD50 (dermal. rat/rabbit) 2000mg/kg

Diethylene Hydroxyl Amine EINECS 2230554
 LD50 (oral, rat) 1290mg/kg

CD-4 EINECS 2471620
 LD50 (oral, rat) 35mg/kg

May cause sensitisation

12. ECOLOGICAL INFORMATION

CD-4 :-

LC50 (fish 96h) 0.50mg/l

WGK 2

Potassium carbonate:-

WGK 1

1,2-Ethanediol:-

LC50 (fish 96h) 10000mg/l

WGK 0

Benzylalcohol:-

LC50 (fish 96h) 630mg/l

WGK 1

Diethylhydroxylamine:-

LC50 (fish 96h) 1000mg/l

13. DISPOSAL CONSIDERATIONS

Discard as per special waste procedure.

European waste catalogue 09.01.01

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

Labelling according to The Chemicals (Hazard Information and Packaging) Regulations 1993, (EG Directives 67/548/EEC and 88/379/EEC):

Symbol: Xn (harmful)

Nature of the special risks:

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

Safety advice:

S2: Keep out of reach of children.

S24: Avoid contact with skin.

S37: Wear suitable gloves.

S46: If swallowed, seek medical advice immediately and show this container or label.

Contains: <50% Ethylene glycol and < 5% CD-4.

16. OTHER INFORMATION

The above mentioned information corresponds to our present knowledge and therefore does not guarantee certain properties. The safety data sheet serves as a description of the product in regards to necessary safety measures. Recipients of our product must take responsibility for observing existing laws and regulations.

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identity : **CKRA4/RT Mono RA4
Bleach Fix**

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Corsham, Wiltshire SN13 9LG, UK.
Tel: +44 (0)1249 714555
email: tech@fotospeed.com

2. COMPOSITION / INGREDIENT INFORMATION

This is a liquid preparation in which mainly inorganic compounds are dissolved in water.
The main ingredients are :

Chemical Name and %w/w	Symbol letter	R-Phrases	S-Phrases	EINEC No	CAS No
Ammonium Thiosulphate	20-50 %	-	231-982-0	7783-18-8	
Ammonium iron EDTA	20-50%	-	21265-50-9		
Phosphoric acid	1-5%				
C	R34			7664-38-2	
Sodium sulfite	5-20%				
Xi	R36/37/38		231-821-4	7757-83-7	

3. HAZARD IDENTIFICATION

Not a dangerous preparation.

4. FIRST AID MEASURES

Eye contact : In case of contact with eyes rinse immediately with plenty of water (15 minutes). If irritation persists, seek medical advice

Skin contact : After contact with skin, wash immediately with plenty of water and soap.

Inhalation : -

Eye contact : Rinse eyes thoroughly with water until irritation stops. In all cases seek medical advice.

Ingestion : If swallowed seek medical advice immediately

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : foam, powder, Carbon dioxide, water,

Unsuitable extinguishing media :-

Protection against fire and explosion :-

Hazardous decomposition/combustion products : Formation of CO₂, CO & SO₂.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :Avoid contact with eyes.
Environmental precautions :Small spills can be flushed down the drain with large quantities of water.
Methods for cleaning up :Absorb spilled material and dispose of as special waste

7. HANDLING AND STORAGE

Handling :-
Industrial hygiene: When handling do not eat, drink or smoke.
Storage: Keep container at a temperature below 30°C.
Ventilation: 12 to 15 air changes per hour in work area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Under normal working conditions not necessary
Eye protection: Wear eye/face protection.
Hand protection: Wear suitable gloves.
Skin protection: Remove contaminated clothing immediately

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Red
Odour	: Typical
Boiling point/range	: >100°C
Melting point/range	: <0°C
Flash point	: n.a
Ignition temperature	: n.a
Flammability (solid/gas)	: n.a
Autoflammability	: n.a
Explosive properties	: n.a
Oxidising properties	: -
Vapour pressure (38° C)	: -
Relative Density (20° C)	: 1.45-1.47
pH value (concentrate) (20° C)	: 5.4-5.7
pH value (1+4) (20° C)	: 5.6-5.9
Solubility in water (20° C)	: 100%
Viscosity	: -
Further Information	: -

10. STABILITY AND REACTIVITY

Conditions to be avoided: Avoid contact with aluminium and other metals.
Materials to be avoided: Avoid contact with oxidising agents and strong acids.
Hazardous decomposition products: Thermal decomposition in the presence of air may yield Sulfur dioxide (SO₂), Carbon monoxide (CO), and Carbon dioxide (CO₂).

