

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Identity : **RT20 COPPER/RED TONER
PART 1**

Producer / Distributor : Jay House Ltd., Fiveways House, Westwells Road
Rudloe, Corsham, Wiltshire, U.K. SN13 9RG

Emergency Tel: Tel: 01225 810596 Fax: 01225 811801

2. COMPOSITION / INGREDIENT INFORMATION

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

Chemical Name and Symbol letter	%w/w	R-Phrases	S-Phrases	EINEC No	CAS No
POTASSIUM FERRICYANIDE	3-5 %				
-	-		-	237-323-3	13746-66-2
SODIUM CITRATE	<10%				
-	-		-	200-675-3	6132-04-3

3. HAZARD IDENTIFICATION

EC classification :

See paragraph 15

Most important hazards :

4. FIRST AID MEASURES

Inhalation : Move the victim to fresh air. Put person in half sitting position and let rest. In extreme cases seek medical advice.

Skin contact : Flush with plenty of water. Remove contaminated clothing.

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

Ingestion : Rinse mouth with plenty of water. Give victim considerable amounts of water to drink. Do not induce vomiting. In extreme cases seek medical advice.

Other : No typical symptoms and effects known.

Advice to physician :

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Only use extinguishing media which are compatible with the surrounding materials. Water, waterspray, Carbon dioxide, dry powder, foam, sand.

Unsuitable extinguishing media : All extinguishing media are allowed.

Special exposure hazards : When product is involved in a fire, toxic fumes and smoke may be generated. Do not breathe these fumes

Hazardous decomposition/combustion products : K₂O, CN & Na₂O

Protective equipment : Use approved positive pressure self-contained breathing apparatus when product is involved in a fire.

Further instructions : Contaminated extinguishing water should be disposed of in a manner approved by the EEC, national and local regulatory agencies.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective clothing. (See paragraph 8).

When vapours, aerosols or mists are formed, wear suitable respiratory protection.

Environmental precautions : In case of an accident, avoid release of product into the environment. Prevent product getting into sewerage systems or public waterways. Try to collect as much as possible in an approved container for later disposal

Methods for cleaning up : Action may only be taken when fully protected. Contain the area of spillage. Stop the source of leak. Large amounts should be pumped into a container. Small amounts can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water

7. HANDLING AND STORAGE

Handling : Working areas and methods should be organised in such a way that direct contact is avoided. Wear protective clothing. Emergency wash and eye rinse facilities must be accessible. When handling chemicals, do not eat, drink or smoke.

Fire and explosion prevention : This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention procedures are necessary.

Storage requirements : Store in a dry cool, well ventilated place away from all sources of ignition and heating. Keep the package closed if not in use

Other information : Always store in the original container. Do not use the empty contaminated container for any other purposes

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls : Ensure good ventilation and local exhaustion of the working area.

Exposure limits : -

Personal protection :

Inhalation : Normally a local ventilation is sufficient to keep airborne concentration of chemicals at a low level. No special breathing protection is necessary.

Skin contact : Wear impervious gloves.

Eye contact : Wear close fitting safety goggles.

Ingestion : When handling chemicals do not eat, drink or smoke.

Other information : Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation. Avoid breathing mist or vapour. Avoid contact with eyes and skin. Handle with care.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Yellow
Odour	: Odourless
Boiling point/range	: 100 degrees C.
Melting point/range	: Not relevant
Flash point	: Not relevant
Flammability	: Not relevant
Autoignition temperature	: Not relevant
Explosive limits lower	: Not relevant
Oxidising properties	: Not determined
Vapour pressure (20deg C)	: Not determined
Density (20deg C)	: Not determined
Solubility in water (25deg C)	: Completely
Solubility in other solvents (25deg C)	: Not determined
pH value (25deg C)	: 7.2
pH solution in water	: Not determined
Partition coefficient n-octanol/water	: Not determined
Viscosity	: As water
Other information	: -

10. STABILITY AND REACTIVITY

Stability : The product is stable under normal storage conditions

Conditions to avoid :

Materials to avoid :-

Hazardous decomposition products Only when the product is involved in a fire, or when it is handled incorrectly, is there a possibility that decomposition products will be generated. (See paragraph 5)

11. TOXICOLOGICAL INFORMATION

Acute toxicity :-

Different routes of exposure, health warnings

Inhalation : Avoid breathing mist, vapour or aerosols. Ventilate as required to keep concentrations low.

Skin contact : Avoid contact with skin.

Eye contact : May cause irritation.

Ingestion : No specific exposure limits determined for this preparation. None of the ingredients shows a high risk when ingested

Other information :-

Experience with humans :

12. ECOLOGICAL INFORMATION

Information about elimination

Information about environmental compartments :

Ecotoxicity :-

Other information :-

13. DISPOSAL CONSIDERATIONS

Product or contaminated product Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.
Contaminated package : Contaminated package should be disposed of in accordance with local and national regulations.
Other information : We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

14. TRANSPORT INFORMATION

UN No. :-
Description : NON HAZARDOUS
Containing :-
ADR/RID Class :- Item :- TREMCARD: -
IMDG/ADNR Class :- Page :- EmS :-

ICAO/IATA Pack.gr: - MFAG :
Class :- Pass< :- Instr. :-
Pack.gr: - Cargo<:- Instr. :-

15. REGULATORY INFORMATION

Chemical identity : -
Warning sign EC : -

Symbol(s) : -

R(isk) phrase(s) :
-
S(afety) phrase(s) :
-

Exposure limits :-
Other information :-

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 : **RT20 COPPER/RED TONER PART 2**

Producer / Distributor : Jay House Ltd., Fiveways House, Westwells Road
Rudloe, Corsham, Wiltshire, U.K. SN13 9RG

Emergency Tel: Tel: 01225 810596 Fax: 01225 811801

2. COMPOSITION / INGREDIENT INFORMATION

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

Chemical Name and Symbol letter	%w/w	R-Phrases	S-Phrases	EINEC No	CAS No
COPPER SULPHATE Xn	< 10 %	R22, 36/38		231-847-6	7758-98-7
SODIUM CITRATE -	<10%			200-675-3	6132-04-3
ISOTHIAZOLINONES Xi	<1%	R38-41-43	S26-28		

3. HAZARD IDENTIFICATION

EC classification :

See paragraph 15

Most important hazards :

4. FIRST AID MEASURES

Inhalation : Move the victim to fresh air. Put person in half sitting position and let rest. In extreme cases seek medical advice.

Skin contact : Flush with plenty of water. Remove contaminated clothing.

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

Ingestion : Harmful by ingestion. Rinse mouth with plenty of water. Give victim considerable amounts of water to drink. Do not induce vomiting. Seek medical advice in all cases.

Other : No typical symptoms and effects known.

Advice to physician :

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Only use extinguishing media which are compatible with the surrounding materials. Water, waterspray, Carbon dioxide, dry powder, foam, sand.

Unsuitable extinguishing media :All extinguishing media are allowed.

Special exposure hazards : When product is involved in a fire, toxic fumes and smoke may be generated. Do not breathe these fumes

Hazardous decomposition/combustion products :- SO_x & Na₂O

Protective equipment : Use approved positive pressure self-contained breathing apparatus when product is involved in a fire.

Further instructions :Contaminated extinguishing water should be disposed of in a manner approved by the EEC, national and local regulatory agencies.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions :Wear personal protective clothing. (See paragraph 8).

When vapours, aerosols or mists are formed, wear suitable respiratory protection.

Environmental precautions :In case of an accident, avoid release of product into the environment. Prevent product getting into sewerage systems or public waterways. Try to collect as much as possible in an approved container for later disposal

Methods for cleaning up :Action may only be taken when fully protected. Contain the area of spillage. Stop the source of leak. Large amounts should be pumped into a container. Small amounts can be collected with absorbing materials. Small remaining leftovers may be washed away with large amounts of water

7. HANDLING AND STORAGE

Handling : Working areas and methods should be organised in such a way that direct contact is avoided.Wear protective clothing. Emergency wash and eye rinse facilities must be accessible. When handling chemicals, do not eat, drink or smoke.

Fire and explosion prevention :This preparation contains a lot of water and does not show any flammable or explosive properties. No special fire and explosion prevention procedures are necessary.

Storage requirements :Store in a dry cool, well ventilated place away from all sources of ignition and heating. Keep the package closed if not in use

Other information : Always store in the original container. Do not use the empty contaminated container for any other purposes

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls : Ensure good ventilation and local exhaustion of the working area.

Exposure limits :-

Personal protection :

Inhalation : Normally a local ventilation is sufficient to keep airborne concentration of chemicals at a low level. No special breathing protection is necessary.

Skin contact : Wear impervious gloves.

Eye contact : Wear close fitting safety goggles.

Ingestion : When handling chemicals do not eat, drink or smoke.

Other information : Always follow the mixing instructions strictly when water or other solutions have to be added to the preparation. Avoid breathing mist or vapour. Avoid contact with eyes and skin. Handle with care.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Blue
Odour	: Odourless
Boiling point/range	: 100 degrees C.
Melting point/range	: Not relevant
Flash point	: Not relevant
Flammability	: Not relevant
Autoignition temperature	: Not relevant
Explosive limits lower	: Not relevant
Oxidising properties	: Not determined
Vapour pressure (20deg C)	: Not determined
Density (20deg C)	: Not determined
Solubility in water (25deg C)	: Completely
Solubility in other solvents (25deg C)	: Not determined
pH value (25deg C)	: 4.8
pH solution in water	: Not determined
Partition coefficient n-octanol/water	: Not determined
Viscosity	: As water
Other information	: -

10. STABILITY AND REACTIVITY

Stability : The product is stable under normal storage conditions

Conditions to avoid :

Materials to avoid -

Hazardous decomposition products Only when the product is involved in a fire, or when it is handled incorrectly, is there a possibility that decomposition products will be generated. (See paragraph 5)

11. TOXICOLOGICAL INFORMATION

Acute toxicity :- Copper Sulphate LD50 Oral Rat 300mg/Kg

Different routes of exposure, health warnings

Inhalation : Avoid breathing mist, vapour or aerosols. Ventilate as required to keep concentrations low.

Skin contact : Irritating to skin

Eye contact : Irritating to eyes.

Ingestion : Harmful by ingestion

Other information :-

Experience with humans : Over exposure to Copper sulphate has ben known to cause kidney and liver damage

12. ECOLOGICAL INFORMATION

Information about elimination

Information about environmental compartments :

Ecotoxicity :- Copper sulphate in low concentrations is harmful to aquatic life

Other information :- Copper is strongly bioaccumulated

13. DISPOSAL CONSIDERATIONS

Product or contaminated product Dispose of leftovers, waste or contaminated products in accordance with local and national regulations.
Contaminated package : Contaminated package should be disposed of in accordance with local and national regulations.
Other information : We recommend the separation of any waste resulting from this product. It can be dangerous when different photographic products are mixed together

14. TRANSPORT INFORMATION

UN No. :-
Description : NON HAZARDOUS

Containing :-			
ADR/RID Class :-	Item :-	TREMCARD: -	
IMDG/ADNR Class :-	Page :-	EmS :-	
Pack.gr: -		MFAG :	
ICAO/IATA Class :-	Pass< :-	Instr. :-	
Pack.gr: -	Cargo<: -	Instr. :-	

15. REGULATORY INFORMATION

Chemical identity : -
Warning sign EC : -

Symbol(s) : -

R(isk) phrase(s) :
-
S(afety) phrase(s) :
-

Exposure limits :-
Other information :-

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.