# 1 - Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name	: BT20 Blue Toner Part 1
Material type	: Photographic process reagent
Company	: Jay House Ltd
Address	: 6B Park Lane Industrial Estate
	Park Lane
	Corsham
	SN13 9LG
Telephone	: 01249 714555
Fax	: 01249 714999
Internet	: info@fotospeed.com

# 2 – Hazards Identification

# Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No.1272/2008

Not classified as hazardous according to European Directive 67/548/EEC as amended

# 3 - Composition/Information on Ingredients

CAS No.	EC No.	Index No.	Classification	Concentration
Potassium Fer	ricyanide			
13746-66-2	237-323-3	-	-	20% w/w
Potassium Dic	hromate			
7778-50-9	231-906-6	024-002-00-6	Ox. Sol. 2, Carc. 1B, Muta. 1B, Repr. 1B, Acute Tox. 2, Acute Tox. 3, STOT RE 1, Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1, Aquatic Acute 1,Aquatic Chronic 1, H272, H350, H340, H360FD, H330, H301, H372, H312, H314, H334, H317,H400, H410 O; R8, Carc. Cat. 2; R45, Muta. Cat. 2; R46, Repr. Cat. 2; R60-61, T+; R26, T; R25-48/23 Xn; R21, C; R34, R42/43, N; R50-53	0.02% w/w

# 4 - First-aid Measures

#### Inhalation:

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

## Eyes

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. If irritation persists, obtain medical attention.

#### Skin

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

#### Ingestion

Do NOT induce vomiting. Give plenty of water to drink. If feeling unwell seek prompt medical attention.

# **5** - Fire-fighting Measures

## Suitable Extinguishers

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which are suitable and appropriate for any surrounding fire. **Unsuitable Extinguishers** 

# None.

## Hazardous Decomposition

Potassium oxides, chromium oxides

## Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

# 6 - Accidental Release Measures

## **Personal Protection and Precautions**

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

## **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.

# Containment, Cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules Scoop up and place in plastic container to await transfer Refer to Section 13 for further information regarding disposal.

# 7 - Handling and Storage

# Handling

Avoid inhalation of vapour or mist. **Storage** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

# **8 - Exposure Controls/Personal Protection**

**Occupational Exposure Limit:** 5 mg/m<sup>3</sup> 8hrTWA WEL Tripotassium Hexacyanoferrate 0.05 mg/m<sup>3</sup> 8hrTWA WEL Potassium Dichromate

# **Respiratory Protection**

Use in well ventilated areas. Use mechanical ventilation if possible.

Hand Protection

Wear polythene, PVC or nitrile gloves to Standard EN 374 (breakthrough time for total immersion in excess of 8 hours). **Eye Protection** 

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely. Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

# **9 - Physical & Chemical Properties**

Appearance : Liquid Odour : None pH : n/e Boiling point/range : n/e Melting point/range : n/e Flash point : n/e Flammability : NON FLAMMABLE Autoflammability : n/e Explosive properties : n/e Oxidising properties : NONE Vapour pressure : n/e Relative density : n/e Solubility : n/e Partition Coefficient : n/e Vapour Density : n/e Viscosity : n/e Evaporation rate : n/e

(n/e = not established)

# **10 - Stability and Reactivity**

## Chemical Stability

Stable at normal temperatures and under recommended storage conditions.
Conditions to Avoid
Extreme temperatures and direct sunlight.
Materials to Avoid
Organic materials, do not store near acids. Powdered metals, Hydrazine
Hazardous Decomposition Products
No hazardous decomposition products when stored and handled correctly.

# **11 - Toxicological Information**

#### Acute toxicity

Low toxicity by all routes. For pure potassium dichromate;

 $LD_{50}$  Oral, rat (acute lethal effects) >25,  $\leq 200$ mg/kg.

 $LC_{50}$  Inhalation, rat (acute lethal effects) from vapours  $\leq 0.5$  mg/litre/4h & >400,  $\leq 2000$  m/kg

Inhalation, rat severe effects after repeated/prolonged exposure ≤0.025mg/litre/6h/day

## Skin corrosion/irritation

Not expected to cause any acute skin corrosion or irritation Serious eye damage/eye irritation

Not expected to cause any acute eye damage or irritation; low level transient eye irritation may be possible following exposure to liquid or vapours.

**Respiratory or skin sensitisation** Not expected to have sensitisation potential **Germ cell mutagenicity** No data available.

#### Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available. **Specific target organ toxicity - repeated exposure** No data available.

# **Potential health effects**

Inhalation Excessive inhalation of vapours, aerosols or mists may cause mild, transient respiratory tract irritation.Ingestion May be harmful if ingested in quantity.Skin Repeated exposure may cause skin dryness or cracking.Eyes May cause transient eye irritation

#### Signs and Symptoms of Exposure

Ulceration, Material is extremely destructive to tissue of the mucous membranes and upper respiratory, tract, eyes, and skin.

# 12 - Ecological Information

#### Toxicity

Not expected to be harmful to aquatic life.

Persistence and degradability
No data available.

**Mobility in soil** No data available.

**Bioaccumulative potential** Not expected to be able to bioaccumulate

# **13** -Disposal Considerations

## Product

Material is not classified as hazardous waste under the Hazardous Waste Regulations 2005 as amended. Follow suppliers instructions regarding safe methods of disposal. Reuse and recycle material where possible.

**Contaminated packaging** Dispose of as unused product.

# **14** -Transport Information

ADR/RID	Not classified as hazardous for transport
IMDG	Not classified as hazardous for transport
Marine pollutant:	No
IATA	Not classified as hazardous for transport

# **15 - Regulatory Information**

## Label Elements

No statutory safety labels are required for this material in accordance with the provisions of EC/1907/2006, EC/1272/2008 or 67/548/EEC as amended

# **Other Regulations**

Health & Safety at Work etc. Act 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended) EH40/2005 Workplace Exposure Limits (as amended) Environmental Protection Act 1990 Hazardous Waste Regulations 2005 (as amended)

**PBT and vPvB assessment** No data available.

**Other adverse effects** None expected

# 16 - Other Information

#### Text of H-code(s) and R-phrase(s) mentioned in Section 3

H272	May intensify fire; oxidiser
H350	May cause cancer
H340	May cause genetic effects
H360FD	May damage fertility or the unborn child
H330	Fatal if inhaled
H302	Harmful if swallowed
H373i	May cause damage to organs through prolonged or repeated exposure
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
R45	May cause cancer.
R46	May cause heritable genetic damage.
R60	May impair fertility.
R61	May cause harm to the unborn child.
R21	Also harmful in contact with skin.
R25	Also toxic if swallowed.
R26	Also very toxic by inhalation.
R48/23	Also toxic: danger of serious damage to health by prolonged exposure through inhalation.
R 8	Contact with combustible material may cause fire.
R34	Causes burns.
R42/43	May cause sensitization by inhalation and skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Recommended restrictions on use**

Use in accordance with manufacturer's technical instructions.

#### **Revision History**

First Issue

## **Further Information**

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.

# 1 - Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name Material type Company	<ul><li>BT20 Blue Toner Part 2</li><li>Photographic process reagent</li><li>Jay House Ltd</li></ul>
Address	: 6B Park Lane Industrial Estate Park Lane Corsham SN13 9LG
Telephone Fax Internet	: 01249 714555 : 01249 714999 : info@fotospeed.com

# 2 – Hazards Identification

# Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No.1272/2008

Not classified as hazardous according to European Directive 67/548/EEC as amended

# 3 - Composition/Information on Ingredients

CAS No.	EC No.	Index No.	Classification	Concentration
Ammonium irc	n bis (sulphate	e)		
7783-83-7	233-382-4	-	Eye Irrit. 2, Skin Irrit. 2, H319, H315 Xi; R36/38	5% w/w

# 4 - First-aid Measures

## Inhalation:

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

# Eyes

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. If irritation persists, obtain medical attention.

## Skin

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

## Ingestion

Do NOT induce vomiting. Give plenty of water to drink. If feeling unwell seek prompt medical attention.

# **5** - Fire-fighting Measures

## Suitable Extinguishers

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which are suitable and appropriate for any surrounding fire.

# Unsuitable Extinguishers

None.

## Hazardous Decomposition

None.

## Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

## 6 - Accidental Release Measures

## **Personal Protection and Precautions**

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

## **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.

## Containment, Cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules Scoop up and place in plastic container to await transfer Refer to Section 13 for further information regarding disposal.

# 7 - Handling and Storage

# HandlingAvoid inhalation of vapour or mist.StorageStore in cool place. Keep container tightly closed in a dry and well-ventilated place.

# **8 - Exposure Controls/Personal Protection**

**Occupational Exposure Limit:** 1 mg/m<sup>3</sup> 8hrTWA WEL Ammonium iron bis (sulphate)

## **Respiratory Protection**

Use in well ventilated areas. Use mechanical ventilation if possible.

Hand Protection

Wear polythene, PVC or nitrile gloves to Standard EN 374 (breakthrough time for total immersion in excess of 8 hours). **Eye Protection** 

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely. Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

## 9 - Physical & Chemical Properties

Appearance : Liquid Odour : None pH : n/e Boiling point/range : n/e Melting point/range : n/e Flash point : n/e Flammability : NON FLAMMABLE Autoflammability : n/e Explosive properties : n/e Oxidising properties : NONE Vapour pressure : n/e Relative density : n/e Solubility : n/e Partition Coefficient : n/e Vapour Density : n/e Viscosity : n/e Evaporation rate : n/e

(n/e = not established)

# 10 - Stability and Reactivity

## **Chemical Stability**

Stable at normal temperatures and under recommended storage conditions. **Conditions to Avoid** Extreme temperature and direct sunlight. Materials to Avoid Strong oxidising agents **Hazardous Decomposition Products** No hazardous decomposition products when stored and handled correctly.

# **11 - Toxicological Information**

#### Acute toxicity

Low toxicity by all routes.

## Skin corrosion/irritation

Not expected to cause any acute skin corrosion or irritation Serious eye damage/eye irritation Not expected to cause any acute eye damage or irritation; low level transient eye irritation may be possible following exposure to liquid or vapours. **Respiratory or skin sensitisation** Germ cell mutagenicity May cause allergic respiratory reaction No data available

#### Carcinogenicity

confirmed human carcinogen by IARC.

**Reproductive toxicity** No data available

Specific target organ toxicity - single exposure No data available.

# Potential health effects

Inhalation Excessive inhalation of vapours, aerosols or mists may cause mild, transient respiratory tract irritation. Ingestion May be harmful if ingested in quantity. Skin Repeated exposure may cause skin dryness or cracking. Eyes May cause transient eye irritation

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **12 - Ecological Information**

Toxicity Not expected to be harmful to aquatic life.

Persistence and degradability No data available.

Mobility in soil No data available.

**Bioaccumulative potential** Not expected to be able to bioaccumulate PBT and vPvB assessment No data available.

Other adverse effects None expected

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or

Specific target organ toxicity - repeated exposure No data available.

# **13** -Disposal Considerations

## Product

Material is not classified as hazardous waste under the Hazardous Waste Regulations 2005 as amended. Follow supplier's instructions regarding safe methods of disposal. Reuse and recycle material where possible. **Contaminated packaging** Dispose of as unused product.

# **14** -Transport Information

ADR/RID	Not classified as hazardous for transport
IMDG	Not classified as hazardous for transport
Marine pollutant:	No
IATA	Not classified as hazardous for transport

# **15 - Regulatory Information**

## Label Elements

No statutory safety labels are required for this material in accordance with the provisions of EC/1907/2006, EC/1272/2008 or 67/548/EEC as amended

## **Other Regulations**

Health & Safety at Work etc. Act 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended) EH40/2005 Workplace Exposure Limits (as amended) Environmental Protection Act 1990 Hazardous Waste Regulations 2005 (as amended)

# 16 - Other Information

# Text of H-code(s) and R-phrase(s) mentioned in Section 3

H319	Causes serious eye irritation
H315	Causes skin irritation

R36/R38	Irritating to eyes and skin

#### **Recommended restrictions on use**

Use in accordance with manufacturer's technical instructions.

#### **Revision History**

First Issue

#### **Further Information**

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.

# 1 - Identification of Substance/Mixture and of the Company/Undertaking

Material/Trade Name Material type Company		
Address	: 6B Park Lane Industrial Estate Park Lane	
Telephone Fax Internet	Corsham SN13 9LG : 01249 714555 : 01249 714999 : info@fotospeed.com	

# 2 – Hazards Identification

# Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No.1272/2008

Not classified as hazardous according to European Directive 67/548/EEC as amended

# 3 - Composition/Information on Ingredients

CAS No.	EC No.	Index No.	Classification	Concentration
Oxalic Acid				
144-62-7	205-634-3	607-006-00-8	Acute Tox. 4, Acute Tox. 4 H302, H312 Xn; R21/22	5% w/w

# 4 - First-aid Measures

## Inhalation:

Remove to fresh air and rest. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel.

## Eyes

Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. If irritation persists, obtain medical attention.

## Skin

Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists, obtain medical attention.

#### Ingestion

Do NOT induce vomiting. Give plenty of water to drink. If feeling unwell seek prompt medical attention.

# **5** - Fire-fighting Measures

## **Suitable Extinguishers**

Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which are suitable and appropriate for any surrounding fire. **Unsuitable Extinguishers** 

None.

## **Hazardous Decomposition**

CO, CO<sub>2</sub> and Formic acid.

## Special Procedures/information for firefighters

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

# 6 - Accidental Release Measures

## **Personal Protection and Precautions**

Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing vapours. Ensure adequate ventilation.

**Environmental Precautions** 

Prevent further leakage or spillage if safe to do so. Do not let product enter drains or watercourses.

## Containment, Cleaning up and Disposal Considerations

Absorb in inert material such as sand or non-combustible absorbent granules Scoop up and place in plastic container to await transfer Refer to Section 13 for further information regarding disposal.

# 7 - Handling and Storage

# HandlingAvoid inhalation of vapour or mist.StorageStore in cool place. Keep container tightly closed in a dry and well-ventilated place.

# **8 - Exposure Controls/Personal Protection**

Occupational Exposure Limit: 1 mg/m<sup>3</sup> 8hrTWA WEL Oxalic Acid

## **Respiratory Protection**

Use in well ventilated areas. Use mechanical ventilation if possible.

Hand Protection

Wear polythene, PVC or nitrile gloves to Standard EN 374 (breakthrough time for total immersion in excess of 8 hours). **Eye Protection** 

Wear suitable eye protection such as safety glasses or goggles to Standard BS EN 166 if splash or eye contact likely. Skin Protection

Wear suitable overalls or apron and change if contaminated. After contact with skin wash off immediately. Wash hands before breaks and immediately after using the product.

## 9 - Physical & Chemical Properties

Appearance : Liquid Odour : None pH : n/e Boiling point/range : n/e Melting point/range : n/e Flash point : n/e Flammability : NON FLAMMABLE Autoflammability : n/e Explosive properties : n/e Oxidising properties : NONE Vapour pressure : n/e Relative density : n/e Solubility : n/e Partition Coefficient : n/e Vapour Density : n/e Viscosity : n/e Evaporation rate : n/e

(n/e = not established)

# **10 - Stability and Reactivity**

## **Chemical Stability**

Stable at normal temperatures and under recommended storage conditions. Conditions to Avoid Extreme temperature and direct sunlight. Materials to Avoid Metals, Alkali metals Hazardous Decomposition Products No hazardous decomposition products when stored and handled correctly.

# **11 - Toxicological Information**

#### Acute toxicity

Low toxicity by all routes.

# Skin corrosion/irritation

Not expected to cause any acute skin corrosion or irritationSerious eye damage/eye irritationNot expected to cause any acute eye damage or irritation; low level transient eye irritation may be possible following<br/>exposure to liquid or vapours.Respiratory or skin sensitisationGerm cell mutagenicity<br/>No data available

#### Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity** No data available

**Specific target organ toxicity - single exposure** No data available.

# **Potential health effects**

Inhalation Excessive inhalation of vapours, aerosols or mists may cause mild, transient respiratory tract irritation.Ingestion May be harmful if ingested in quantity.Skin Repeated exposure may cause skin dryness or cracking.Eyes May cause transient eye irritation

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **12 - Ecological Information**

**Toxicity** Not expected to be harmful to aquatic life.

**Persistence and degradability** No data available. **Mobility in soil** No data available.

**Bioaccumulative potential** Not expected to be able to bioaccumulate **PBT and vPvB assessment** No data available.

Other adverse effects None expected

**Specific target organ toxicity - repeated exposure** No data available.

## **13** -Disposal Considerations

## Product

Material is not classified as hazardous waste under the Hazardous Waste Regulations 2005 as amended. Follow supplier's instructions regarding safe methods of disposal. Reuse and recycle material where possible. **Contaminated packaging** Dispose of as unused product.

# **14** -Transport Information

ADR/RID	Not classified as hazardous for transport
IMDG	Not classified as hazardous for transport
Marine pollutant:	No
IATA	Not classified as hazardous for transport

## **15 - Regulatory Information**

## Label Elements

No statutory safety labels are required for this material in accordance with the provisions of EC/1907/2006, EC/1272/2008 or 67/548/EEC as amended

# **Other Regulations**

Health & Safety at Work etc. Act 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended) EH40/2005 Workplace Exposure Limits (as amended) Environmental Protection Act 1990 Hazardous Waste Regulations 2005 (as amended)

# **16 - Other Information**

# Text of H-code(s) and R-phrase(s) mentioned in Section 3

H302	Harmful if swallowed
H312	Harmful in contact with skin
R21/22	Harmful in contact with skin and if swallowed

#### **Recommended restrictions on use**

Use in accordance with manufacturer's technical instructions.

#### **Revision History**

First Issue

#### **Further Information**

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Jay House Ltd. (Jay House). However, Jay House makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.