

**DALER ~ ROWNEY U.S.A.**

FINE ART &amp; GRAPHIC MATERIALS

Daler-Rowney USA, 2 Corporate Drive, Cranbury, New Jersey 08512-9584 U.S.A.  
Tel: 609 655 5252 Fax: 609 655 5852**00646-all except  
-1004****Material Safety Data Sheet**  
(REVISION: REVISED SECTIONS 1 & 2)**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

Product : SYSTEM 3 ACRYLIC COLOURS.

Intended use: ART, CRAFT & DESIGN WORK.

Manufacturers Name: Daler-Rowney Ltd.

Address: 2 Corporate Drive  
Cranbury  
New Jersey 08512-9584

Emergency telephone Number: 609 655 5252

Telephone Number for information: 609 655 5252

Date of Issue: 10<sup>th</sup> January 2007

**2. CHEMICAL COMPOSITION/INFORMATION ON INGREDIENTS**

Substances presenting a health hazard with the meaning of the Dangerous Substances Directive 67/548/EEC.

(a) Microbiocide based on isothiazolones and formaldehyde donators including the following dangerous components (concentration levels are given for the finished product):

Formaldehyde (<0.002%)

CAS number: 50-00-0  
EINECS: 200-001-8 T; R 23/24/25-34-40-43

A mixture of: 5 - chloro-2-methyl-2H-isothiazol-3-one[EC No 247-50-7] and 2-methyl-2H-isothiazol-3-one [EC No 220-239-6] (3:1) T, N; R 23/24/25-34-43-50/53 (<0.0015%)

(b) Microbiocide based on isothiazolones and formaldehyde donators including the following dangerous components (concentration levels are given for the finished product):

Formaldehyde (<0.02%)

CAS number: 50-00-0  
EINECS: 200-001-8 T; R 23/24/25-34-40-43

2-methyl-2H-isothiazol-3-one (<0.05%)  
CAS number 2682-20-4  
EC No 220-239-6 T, N; R 24/25-34-43-50

1,2-benzisothiazol-3(2H)-one (<0.05%)

CAS number: 2634-33-5  
EINECS: 220-120-9 Xn; R22-38-41-43-50

Item Numbers: 00646-0039, 00646-0169, 00646-1001, 00646-1002, 00646-1003, 00646-1009, 00646-1020, 00646-1023, 00646-1024, 00646-1025, 00646-1026, 00646-1030, 00646-1033, 00646-1034, 00646-1036, 00646-1039, 00646-1354, 00646-1356, 00646-2040, 00646-2043, 00646-2044, 00646-2045, 00646-2046, 00646-2260, 00646-2263, 00646-2264, 00646-2266, 00646-2320, 00646-2323, 00646-2324, 00646-2560, 00646-2563, 00646-2564, 00646-2565, 00646-2566, 00646-3160, 00646-3163, 00646-3164, 00646-3165, 00646-3166, 00646-3200, 00646-3203, 00646-3204, 00646-3206, 00646-3206, 00646-3330, 00646-3333, 00646-3334, 00646-3335, 00646-3336, 00646-3423, 00646-3424, 00646-3425, 00646-3426, 00646-3540, 00646-3543, 00646-3544, 00646-3546, 00646-3560, 00646-3563, 00646-3564, 00646-3566, 00646-3710, 00646-3713, 00646-3714, 00646-3716, 00646-3720, 00646-3723, 00646-3724, 00646-3726, 00646-3740, 00646-3743, 00646-3744, 00646-3746, 00646-3840, 00646-3843, 00646-3844, 00646-3846, 00646-4040, 00646-4043, 00646-4044, 00646-4045, 00646-4046, 00646-4060, 00646-4063, 00646-4064, 00646-4065, 00646-4066, 00646-4120, 00646-4123, 00646-4124, 00646-4126, 00646-4200, 00646-4203, 00646-4204, 00646-4205, 00646-4206, 00646-4220, 00646-4223, 00646-4224, 00646-4226, 00646-4400, 00646-4403, 00646-4404, 00646-4406, 00646-4524, 00646-4530, 00646-4533, 00646-4534, 00646-4536, 00646-4540, 00646-4543, 00646-4560, 00646-4563, 00646-4564, 00646-4566, 00646-5160, 00646-5163, 00646-5164, 00646-5165, 00646-5166, 00646-5183, 00646-5184, 00646-5186, 00646-5220, 00646-5223, 00646-5224, 00646-5226, 00646-5230, 00646-5233, 00646-5235, 00646-5240, 00646-5243, 00646-5244, 00646-5246, 00646-5274, 00646-5276, 00646-5420, 00646-5423, 00646-5424, 00646-5426, 00646-5490, 00646-5493, 00646-5494, 00646-5496, 00646-5510, 00646-5513, 00646-5514, 00646-5516, 00646-5910, 00646-5913, 00646-5914, 00646-5915, 00646-5916, 00646-6000, 00646-6003, 00646-6004, 00646-6006, 00646-6010, 00646-6013, 00646-6014, 00646-6016, 00646-6610, 00646-6613, 00646-6614, 00646-6616, 00646-7010, 00646-7013, 00646-7014, 00646-7016, 00646-7050, 00646-7053, 00646-7054, 00646-7056, 00646-7064, 00646-7080, 00646-7083, 00646-7090, 00646-7093, 00646-7094, 00646-7096, 00646-7120, 00646-7123, 00646-7124, 00646-7125, 00646-7126, 00646-7150, 00646-7153, 00646-7154, 00646-7156, 00646-7270, 00646-7273, 00646-7274, 00646-7276, 00646-7370, 00646-7374, 00646-7376, 00646-7383, 00646-7800, 00646-7803, 00646-7804, 00646-7805, 00646-7806, 00646-7840, 00646-7843, 00646-7844, 00646-7914, 00646-7916, 00646-8014, 00646-8016, 00646-8024, 00646-8026, 00646-8040, 00646-8043, 00646-8044, 00646-8045, 00646-8046, 00646-8050, 00646-8053, 00646-8054, 00646-8055, 00646-8056, 00646-8060, 00646-8063, 00646-8064, 00646-8066, 00646-8070, 00646-8073, 00646-8074, 00646-8076, 00646-8910, 00646-8913, 00646-8914, 00646-8916, 00646-9240, 00646-9243, 00646-9244, 00646-9246, 00646-9260, 00646-9263, 00646-9264, 00646-9266, 00646-9330, 00646-9333, 00646-9334, 00646-9336, 00646-9504, 00646-9506, 00646-3410, 00646-3704, 00646-3790, 00646-3793, 00646-4140, 00646-4143, 00646-4144, 00646-5170, 00646-5540, 00646-5543, 00646-5544, 00646-6020, 00646-6023, 00646-9503, 00646-9510

**Additional information**

The combined total concentration for the dangerous components in the preservatives is below the level that requires the finished product to be classified as dangerous for use. This product line is classified as requiring no hazard warning in accordance with the chronic hazard labelling standard ASTM D-4236.

**3. HAZARDS IDENTIFICATION OF PREPARATION**

Not regarded as dangerous under current legislation.

**4. FIRST AID MEASURES.**

<b>General:</b>	In all cases where symptoms persist, seek medical attention. NEVER give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Not Applicable.
<b>Eye contact:</b>	Irrigate eye with copious amounts of clean water until the discomfort subsides. If symptoms persist, seek medical attention.
<b>Skin contact:</b>	Wash affected area with soap and water. If symptoms persist, seek medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting. Seek medical attention.

**5. FIRE FIGHTING METHODS**

**Extinguishing media:** Any extinguisher.

**Not to be used:** Not Applicable.

**Recommendations/other information :**

**6. ACCIDENTAL RELEASE MEASURES**

Clean up spillage immediately with damp cloth, and wash area down thoroughly with detergent and water.

**7. HANDLING AND STORAGE**

**Handling:** Avoid prolonged skin contact.  
Avoid contact with clothing, as removal may be impossible.  
DO NOT eat, drink or smoke whilst using.  
Wash hands after use.

**Storage:** Avoid extremes of temperature.  
Avoid contact with acids.  
Clean lids and threads of containers before closing.

**8. EXPOSURE CONTROLS/PERSON PROTECTION**

Wear overalls / smock.  
DO NOT eat, drink or smoke whilst using  
Wash hands after use.

Item Numbers: 00646-0039, 00646-0169, 00646-1001, 00646-1002, 00646-1003, 00646-1009, 00646-1020, 00646-1023, 00646-1024, 00646-1025, 00646-1026, 00646-1030, 00646-1033, 00646-1034, 00646-1036, 00646-1039, 00646-1354, 00646-1356, 00646-2040, 00646-2043, 00646-2044, 00646-2045, 00646-2046, 00646-2260, 00646-2263, 00646-2264, 00646-2266, 00646-2320, 00646-2323, 00646-2324, 00646-2560, 00646-2563, 00646-2564, 00646-2565, 00646-2566, 00646-3160, 00646-3163, 00646-3164, 00646-3165, 00646-3166, 00646-3200, 00646-3203, 00646-3204, 00646-3206, 00646-3300, 00646-3333, 00646-3334, 00646-3335, 00646-3336, 00646-3423, 00646-3424, 00646-3425, 00646-3426, 00646-3540, 00646-3543, 00646-3544, 00646-3546, 00646-3560, 00646-3563, 00646-3564, 00646-3566, 00646-3710, 00646-3713, 00646-3714, 00646-3716, 00646-3720, 00646-3723, 00646-3724, 00646-3726, 00646-3740, 00646-3743, 00646-3744, 00646-3746, 00646-3840, 00646-3843, 00646-3844, 00646-3846, 00646-4040, 00646-4043, 00646-4044, 00646-4045, 00646-4046, 00646-4060, 00646-4063, 00646-4064, 00646-4065, 00646-4066, 00646-4120, 00646-4123, 00646-4124, 00646-4126, 00646-4200, 00646-4203, 00646-4204, 00646-4205, 00646-4206, 00646-4220, 00646-4223, 00646-4224, 00646-4226, 00646-4400, 00646-4403, 00646-4404, 00646-4406, 00646-4524, 00646-4530, 00646-4533, 00646-4534, 00646-4536, 00646-4540, 00646-4543, 00646-4560, 00646-4563, 00646-4564, 00646-4566, 00646-5160, 00646-5163, 00646-5164, 00646-5165, 00646-5166, 00646-5183, 00646-5184, 00646-5186, 00646-5220, 00646-5223, 00646-5224, 00646-5226, 00646-5230, 00646-5233, 00646-5235, 00646-5240, 00646-5243, 00646-5244, 00646-5246, 00646-5274, 00646-5276, 00646-5420, 00646-5423, 00646-5424, 00646-5426, 00646-5490, 00646-5493, 00646-5494, 00646-5496, 00646-5510, 00646-5513, 00646-5514, 00646-5516, 00646-5910, 00646-5913, 00646-5914, 00646-5915, 00646-5916, 00646-6000, 00646-6003, 00646-6004, 00646-6006, 00646-6010, 00646-6013, 00646-6014, 00646-6016, 00646-6610, 00646-6613, 00646-6614, 00646-6616, 00646-7010, 00646-7013, 00646-7014, 00646-7016, 00646-7050, 00646-7053, 00646-7054, 00646-7056, 00646-7064, 00646-7080, 00646-7083, 00646-7090, 00646-7093, 00646-7094, 00646-7096, 00646-7120, 00646-7123, 00646-7124, 00646-7125, 00646-7126, 00646-7150, 00646-7153, 00646-7154, 00646-7156, 00646-7270, 00646-7273, 00646-7274, 00646-7276, 00646-7370, 00646-7374, 00646-7376, 00646-7383, 00646-7800, 00646-7803, 00646-7804, 00646-7805, 00646-7806, 00646-7840, 00646-7843, 00646-7844, 00646-7914, 00646-7916, 00646-8014, 00646-8016, 00646-8024, 00646-8026, 00646-8040, 00646-8043, 00646-8044, 00646-8045, 00646-8046, 00646-8050, 00646-8053, 00646-8054, 00646-8055, 00646-8056, 00646-8060, 00646-8063, 00646-8064, 00646-8066, 00646-8070, 00646-8073, 00646-8074, 00646-8076, 00646-8910, 00646-8913, 00646-8914, 00646-8916, 00646-9240, 00646-9243, 00646-9244, 00646-9246, 00646-9260, 00646-9263, 00646-9264, 00646-9266, 00646-9330, 00646-9333, 00646-9334, 00646-9336, 00646-9504, 00646-9506, 00646-3410, 00646-3704, 00646-3790, 00646-3793, 00646-4140, 00646-4143, 00646-4144, 00646-5170, 00646-5540, 00646-5543, 00646-5544, 00646-6020, 00646-6023, 00646-9503, 00646-9510

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Acrylic colours.
Odour:	Acrylic resin.
pH of aqueous extract:	8.90 – 9.80
Melting point:	Not Applicable.
Flash point:	Not Applicable.
Flammability :	Non – Flammable.
Explosive properties :	Not Applicable.
Specific gravity:	1.20 – 1.43.
Solubility water:	Soluble.
Organic solvents:	Insoluble.

**10. STABILITY AND REACTIVITY**

Conditions to avoid:	Extremes of temperature.
Materials to avoid:	Acids.
Hazardous decomposition products:	None known.

**11. TOXICOLOGICAL INFORMATION**

There are no data on the preparation itself.

Threshold limit:

Ingestion:	Small amounts are not likely to be toxic, but may cause discomfort in mouth, throat or stomach and may cause vomiting or diarrhoea.
Skin:	Prolonged contact may result in a mild reaction in some instances.
Eyes:	Presence of ammonia in the acrylic emulsion may cause reddening and discomfort.
Respiratory:	Not Applicable.

**12. ECOLOGICAL INFORMATION**

No information available.

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local authority regulations.

Item Numbers: 00646-0039, 00646-0169, 00646-1001, 00646-1002, 00646-1003, 00646-1009, 00646-1020, 00646-1023, 00646-1024, 00646-1025, 00646-1026, 00646-1030, 00646-1033, 00646-1034, 00646-1036, 00646-1039, 00646-1354, 00646-1356, 00646-2040, 00646-2043, 00646-2044, 00646-2045, 00646-2046, 00646-2260, 00646-2263, 00646-2264, 00646-2266, 00646-2320, 00646-2323, 00646-2324, 00646-2560, 00646-2563, 00646-2564, 00646-2565, 00646-2566, 00646-3160, 00646-3163, 00646-3164, 00646-3165, 00646-3166, 00646-3200, 00646-3203, 00646-3204, 00646-3206, 00646-3330, 00646-3333, 00646-3334, 00646-3335, 00646-3336, 00646-3423, 00646-3424, 00646-3425, 00646-3426, 00646-3540, 00646-3543, 00646-3544, 00646-3546, 00646-3560, 00646-3563, 00646-3564, 00646-3566, 00646-3710, 00646-3713, 00646-3714, 00646-3716, 00646-3720, 00646-3723, 00646-3724, 00646-3726, 00646-3740, 00646-3743, 00646-3744, 00646-3746, 00646-3840, 00646-3843, 00646-3844, 00646-3846, 00646-4040, 00646-4043, 00646-4044, 00646-4045, 00646-4046, 00646-4060, 00646-4063, 00646-4064, 00646-4065, 00646-4066, 00646-4120, 00646-4123, 00646-4124, 00646-4126, 00646-4200, 00646-4203, 00646-4204, 00646-4205, 00646-4206, 00646-4220, 00646-4223, 00646-4224, 00646-4226, 00646-4400, 00646-4403, 00646-4404, 00646-4406, 00646-4524, 00646-4530, 00646-4533, 00646-4534, 00646-4536, 00646-4540, 00646-4543, 00646-4560, 00646-4563, 00646-4564, 00646-4566, 00646-5160, 00646-5163, 00646-5164, 00646-5165, 00646-5166, 00646-5183, 00646-5184, 00646-5186, 00646-5220, 00646-5223, 00646-5224, 00646-5226, 00646-5230, 00646-5233, 00646-5235, 00646-5240, 00646-5243, 00646-5244, 00646-5246, 00646-5274, 00646-5276, 00646-5420, 00646-5423, 00646-5424, 00646-5426, 00646-5490, 00646-5493, 00646-5494, 00646-5496, 00646-5510, 00646-5513, 00646-5514, 00646-5516, 00646-5910, 00646-5913, 00646-5914, 00646-5915, 00646-5916, 00646-6000, 00646-6003, 00646-6004, 00646-6006, 00646-6010, 00646-6013, 00646-6014, 00646-6016, 00646-6610, 00646-6613, 00646-6614, 00646-6616, 00646-7010, 00646-7013, 00646-7014, 00646-7016, 00646-7050, 00646-7053, 00646-7054, 00646-7056, 00646-7064, 00646-7080, 00646-7083, 00646-7090, 00646-7093, 00646-7094, 00646-7096, 00646-7120, 00646-7123, 00646-7124, 00646-7125, 00646-7126, 00646-7150, 00646-7153, 00646-7154, 00646-7156, 00646-7270, 00646-7273, 00646-7274, 00646-7276, 00646-7370, 00646-7374, 00646-7376, 00646-7383, 00646-7800, 00646-7803, 00646-7804, 00646-7805, 00646-7806, 00646-7840, 00646-7843, 00646-7844, 00646-7914, 00646-7916, 00646-8014, 00646-8016, 00646-8024, 00646-8026, 00646-8040, 00646-8043, 00646-8044, 00646-8045, 00646-8046, 00646-8050, 00646-8053, 00646-8054, 00646-8055, 00646-8056, 00646-8060, 00646-8063, 00646-8064, 00646-8066, 00646-8070, 00646-8073, 00646-8074, 00646-8076, 00646-8910, 00646-8913, 00646-8914, 00646-8916, 00646-9240, 00646-9243, 00646-9244, 00646-9246, 00646-9260, 00646-9263, 00646-9264, 00646-9266, 00646-9330, 00646-9333, 00646-9334, 00646-9336, 00646-9504, 00646-9506, 00646-3410, 00646-3704, 00646-3790, 00646-3793, 00646-4140, 00646-4143, 00646-4144, 00646-5170, 00646-5540, 00646-5543, 00646-5544, 00646-6020, 00646-6023, 00646-9503, 00646-9510

**14. TRANSPORT INFORMATION**

Transport only in accordance with ADR for roads, RID for Rail, IMDG for sea and ICAO/IATA for air transport

ADR/RID: Not restricted.

IMG : Not restricted.

ICAO/IATA: Not restricted.

**15. REGULATORY INFORMATION**

Classified as requiring no hazard warning in accordance with the chronic hazard labelling standard ASTM D-4236.

**16. OTHER INFORMATION**

The information on this MSDS is based on the present state of our knowledge and on current EEC and national Laws, as the users working conditions are beyond our knowledge and control. The product is not to be used for other purposes than specified in section 1 without first seeking our advice. It is always the responsibility of the user to take necessary steps in order to fulfil the demands laid down in the local rules of legislation. The information in this MSDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products properties.

This information is intended to conform with the requirements of Directive 91/155/EEC and to serve as a guide to the safe handling of the above mentioned products.

Item Numbers: 00646-0039, 00646-0169, 00646-1001, 00646-1002, 00646-1003, 00646-1009, 00646-1020, 00646-1023, 00646-1024, 00646-1025, 00646-1026, 00646-1030, 00646-1033, 00646-1034, 00646-1036, 00646-1039, 00646-1354, 00646-1356, 00646-2040, 00646-2043, 00646-2044, 00646-2045, 00646-2046, 00646-2260, 00646-2263, 00646-2264, 00646-2266, 00646-2320, 00646-2323, 00646-2324, 00646-2560, 00646-2563, 00646-2564, 00646-2565, 00646-2566, 00646-3160, 00646-3163, 00646-3164, 00646-3165, 00646-3166, 00646-3200, 00646-3203, 00646-3204, 00646-3206, 00646-3330, 00646-3333, 00646-3334, 00646-3335, 00646-3336, 00646-3423, 00646-3424, 00646-3425, 00646-3426, 00646-3540, 00646-3543, 00646-3544, 00646-3546, 00646-3560, 00646-3563, 00646-3564, 00646-3566, 00646-3710, 00646-3713, 00646-3714, 00646-3716, 00646-3720, 00646-3723, 00646-3724, 00646-3726, 00646-3740, 00646-3743, 00646-3744, 00646-3746, 00646-3840, 00646-3843, 00646-3844, 00646-3846, 00646-4040, 00646-4043, 00646-4044, 00646-4045, 00646-4046, 00646-4060, 00646-4063, 00646-4064, 00646-4065, 00646-4066, 00646-4120, 00646-4123, 00646-4124, 00646-4126, 00646-4200, 00646-4203, 00646-4204, 00646-4205, 00646-4206, 00646-4220, 00646-4223, 00646-4224, 00646-4226, 00646-4400, 00646-4403, 00646-4404, 00646-4406, 00646-4524, 00646-4530, 00646-4533, 00646-4534, 00646-4536, 00646-4540, 00646-4543, 00646-4560, 00646-4563, 00646-4564, 00646-4566, 00646-5160, 00646-5163, 00646-5164, 00646-5165, 00646-5166, 00646-5183, 00646-5184, 00646-5186, 00646-5220, 00646-5223, 00646-5224, 00646-5226, 00646-5230, 00646-5233, 00646-5235, 00646-5240, 00646-5243, 00646-5244, 00646-5246, 00646-5274, 00646-5276, 00646-5420, 00646-5423, 00646-5424, 00646-5426, 00646-5490, 00646-5493, 00646-5494, 00646-5496, 00646-5510, 00646-5513, 00646-5514, 00646-5516, 00646-5910, 00646-5913, 00646-5914, 00646-5915, 00646-5916, 00646-6000, 00646-6003, 00646-6004, 00646-6006, 00646-6010, 00646-6013, 00646-6014, 00646-6016, 00646-6610, 00646-6613, 00646-6614, 00646-6616, 00646-7010, 00646-7013, 00646-7014, 00646-7016, 00646-7050, 00646-7053, 00646-7054, 00646-7056, 00646-7064, 00646-7080, 00646-7083, 00646-7090, 00646-7093, 00646-7094, 00646-7096, 00646-7120, 00646-7123, 00646-7124, 00646-7125, 00646-7126, 00646-7150, 00646-7153, 00646-7154, 00646-7156, 00646-7270, 00646-7273, 00646-7274, 00646-7276, 00646-7370, 00646-7374, 00646-7376, 00646-7383, 00646-7800, 00646-7803, 00646-7804, 00646-7805, 00646-7806, 00646-7840, 00646-7843, 00646-7844, 00646-7914, 00646-7916, 00646-8014, 00646-8016, 00646-8024, 00646-8026, 00646-8040, 00646-8043, 00646-8044, 00646-8045, 00646-8046, 00646-8050, 00646-8053, 00646-8054, 00646-8055, 00646-8056, 00646-8060, 00646-8063, 00646-8064, 00646-8066, 00646-8070, 00646-8073, 00646-8074, 00646-8076, 00646-8910, 00646-8913, 00646-8914, 00646-8916, 00646-9240, 00646-9243, 00646-9244, 00646-9246, 00646-9260, 00646-9263, 00646-9264, 00646-9266, 00646-9330, 00646-9333, 00646-9334, 00646-9336, 00646-9504, 00646-9506, 00646-3410, 00646-3704, 00646-3790, 00646-3793, 00646-4140, 00646-4143, 00646-4144, 00646-5170, 00646-5540, 00646-5543, 00646-5544, 00646-6020, 00646-6023, 00646-9503, 00646-9510