Safety Data Sheet

This product is defined as an article under REACH and does not require a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006. Since an SDS is not required, this document does not contain all of the information that is required for substance and mixture SDSs under REACH.

Document group:	28-8805-5	**Version number:**	5.00
Revision date:	30/10/2013	**Supersedes date:**	30/10/2013

Transportation version number: 1.00 (24/10/2013)

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M Scotchcal (TM) 80 Graphic Film series with Pigment CI Yellow 34 & Red 104 (Europe)

Product identification numbers

DR-3700-0234-4	DR-3700-0470-4	DR-3700-1400-0	DR-3700-2660-8	DR-3700-4100-3
DR-3700-7170-3	DR-3700-7190-1	DR-3701-8330-0	DR-3702-4000-1	DR-3702-4300-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Industrial use.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:

This material is exempt from hazard classification according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

This product is considered an article and is exempt from hazard classification.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbol(s)

None.

Contains:

No ingredients are assigned to the label.

Risk phrases None.
Safety phrases None.

Special provisions concerning the labelling of certain substances

Contains lead. May not be used on surfaces liable to be chewed or sucked by children.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Paper Liner	None		50 - 70	
PVC-Film	None		15 - 40	
Acrylic Adhesive	Trade Secret		5 - 20	
Lead sulfochromate yellow	1344-37-2	EINECS 215-693-7	0.1 - 5	Carc.Cat.2:R45; Repr.Cat.1:R61; Repr.Cat.3:R62; N:R50/53; R33 - Nota 1 (EU) Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 - Nota 1 (CLP) Aquatic Acute 1, H400; Aquatic Chronic 1, H410 (Self Classified)
Lead chromate molybdate sulfate red	12656-85-8	EINECS 235-759-9	0.1 - 5	Carc.Cat.2:R45; Repr.Cat.1:R61; Repr.Cat.3:R62; N:R50/53; R33 - Nota 1 (EU) Carc. 1B, H350; Repr. 1A, H360Df; STOT RE 2, H373; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 - Nota 1 (CLP) Aquatic Acute 1, H400; Aquatic

				Chronic 1, H410 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section
Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
No need for first aid is anticipated.

Skin contact
No need for first aid is anticipated.

Eye contact
No need for first aid is anticipated.

If swallowed
No need for first aid is anticipated.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

5.3. Advice for fire-fighters
No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Not applicable.

6.2. Environmental precautions
Not applicable.

6.3. Methods and material for containment and cleaning up
Not applicable.

6.4. Reference to other sections
Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2. Conditions for safe storage including any incompatibilities
Not applicable.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Chromium (hexavalent compounds)	12656-85-8	Health and Safety Comm. (UK)	TWA(as Cr):0.05 mg/m3	Respiratory Sensitizer
Chromium (II) compounds	12656-85-8	Health and Safety Comm. (UK)	TWA(as Cr):0.5 mg/m3	
Chromium (III) oxide	12656-85-8	Health and Safety Comm. (UK)	TWA(as Cr):0.5 mg/m3	
Lead compounds, except Alkyl lead compounds	12656-85-8	Health and Safety Comm. (UK)	TWA(as Pb):0.15 mg/m3	
Molybdem, insoluble compounds	12656-85-8	Health and Safety Comm. (UK)	TWA(as Mo):10 mg/m3;STEL(as Mo):20 mg/m3	
Molybdenum, soluble compounds	12656-85-8	Health and Safety Comm. (UK)	TWA(as Mo):5 mg/m3;STEL(as Mo):10 mg/m3	
Chromium (hexavalent compounds)	1344-37-2	Health and Safety Comm. (UK)	TWA(as Cr):0.05 mg/m3	Respiratory Sensitizer
Chromium (II) compounds	1344-37-2	Health and Safety Comm. (UK)	TWA(as Cr):0.5 mg/m3	
Chromium (III) oxide	1344-37-2	Health and Safety Comm. (UK)	TWA(as Cr):0.5 mg/m3	
Lead compounds, except Alkyl lead compounds	1344-37-2	Health and Safety Comm.	TWA(as Pb):0.15 mg/m3	

(UK)
Health and Safety Comm. (UK) : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

Skin protection is not required.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.
Specific Physical Form:	Roll of Tape.
Appearance/Odour	White colour; Some Odour
Odour threshold	*Not applicable.*
pH	*Not applicable.*
Boiling point/boiling range	*Not applicable.*
Melting point	*Not applicable.*
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	*Not applicable.*
Autoignition temperature	*Not applicable.*
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Vapour pressure	*Not applicable.*
Relative density	*No data available.*
Water solubility	*Not applicable.*
Solubility- non-water	*Not applicable.*
Partition coefficient: n-octanol/water	*Not applicable.*
Evaporation rate	*Not applicable.*
Vapour density	*Not applicable.*
Decomposition temperature	*Not applicable.*
Viscosity	*Not applicable.*
Density	*No data available.*

9.2. Other information

Percent volatile *Not applicable.*

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non reactive under normal use conditions

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	Condition
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation
No health effects are expected.

Skin contact
No health effects are expected.

Eye contact
No health effects are expected.

Ingestion
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

Additional information:
This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Lead sulfochromate yellow	Ingestion	Rat	LD50 > 5,000 mg/kg
Lead chromate molybdate sulfate red	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Lead sulfochromate yellow	Rabbit	No significant irritation
Lead chromate molybdate sulfate red	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Lead sulfochromate yellow	Rabbit	No significant irritation
Lead chromate molybdate sulfate red	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Lead sulfochromate yellow		Data not available or insufficient for classification
Lead chromate molybdate sulfate red		Data not available or insufficient for classification

Respiratory Sensitisation

Name	Species	Value
Lead sulfochromate yellow		Data not available or insufficient for classification
Lead chromate molybdate sulfate red		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
Lead sulfochromate yellow	In Vitro	Some positive data exist, but the data are not sufficient for classification
Lead chromate molybdate sulfate red	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Lead sulfochromate yellow	Not specified.	similar compounds	Carcinogenic.
Lead chromate molybdate sulfate red	Not specified.	similar compounds	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Lead sulfochromate yellow	Not	Toxic to female reproduction	similar	NOAEL Not	

	specified.		compoun ds	available	
Lead sulfochromate yellow	Not specified.	Toxic to male reproduction	similar compoun ds	NOAEL Not available	
Lead sulfochromate yellow	Not specified.	Toxic to development	similar compoun ds	NOAEL Not available	
Lead chromate molybdate sulfate red	Not specified.	Toxic to female reproduction	similar compoun ds	NOAEL Not available	
Lead chromate molybdate sulfate red	Not specified.	Toxic to male reproduction	similar compoun ds	NOAEL Not available	
Lead chromate molybdate sulfate red	Not specified.	Toxic to development	similar compoun ds	NOAEL Not available	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Lead sulfochromate yellow			Data not available or insufficient for classification			
Lead chromate molybdate sulfate red			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Lead sulfochromate yellow	Ingestion	hematopoietic system | central nervous system | kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Dog	LOAEL 50 mg/kg/day	90 days
Lead chromate molybdate sulfate red	Ingestion	hematopoietic system | central nervous system | kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Dog	LOAEL 50 mg/kg/day	90 days
Lead sulfochromate yellow	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,000 mg/kg/day	90 days
Lead chromate molybdate sulfate red	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,000 mg/kg/day	90 days
Lead sulfochromate yellow	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 500 mg/kg/day	90 days
Lead chromate molybdate sulfate red	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 500 mg/kg/day	90 days
Lead sulfochromate yellow	Ingestion	endocrine system | immune system | respiratory system	All data are negative	Rat	NOAEL 2,000 mg/kg/day	90 days
Lead chromate molybdate sulfate red	Ingestion	endocrine system | immune system | respiratory system	All data are negative	Rat	NOAEL 2,000 mg/kg/day	90 days

Aspiration Hazard

Name	Value
Lead sulfochromate yellow	Not an aspiration hazard
Lead chromate molybdate sulfate red	Not an aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information

on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Lead sulfochromate yellow	1344-37-2	Water flea	Estimated	48 hours	EC50	0.02 mg/l
Lead chromate molybdate sulfate red	12656-85-8	Water flea	Estimated	96 hours	EC50	0.02 mg/l
Lead chromate molybdate sulfate red	12656-85-8	Green algae	Estimated	96 hours	EC50	2.7 mg/l
Lead chromate molybdate sulfate red	12656-85-8	Common Carp	Estimated	96 hours	LC50	0.44 mg/l
Lead sulfochromate yellow	1344-37-2	Rainbow trout	Estimated	19 months	NOEC	0.003 mg/l
Lead chromate molybdate sulfate red	12656-85-8	Rainbow trout	Estimated	19 months	NOEC	0.003 mg/l

12.2. Persistence and degradability
No test data available.

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Lead sulfochromate yellow	1344-37-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Lead chromate molybdate sulfate red	12656-85-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.3 : Bioaccumulative potential
No test data available.

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Lead sulfochromate yellow	1344-37-2	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Lead chromate molybdate sulfate red	12656-85-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil
Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
See Section 11.1 Information on toxicological effects

This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)
070213 Waste plastic

SECTION 14: Transportation information

DR-3700-0234-4, DR-3700-0470-4, DR-3700-1400-0, DR-3700-2660-8, DR-3700-4100-3, DR-3700-7170-3, DR-3700-7190-1, DR-3701-8330-0, DR-3702-4000-1, DR-3702-4300-5

Not hazardous for transportation

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Carcinogenicity

Ingredient	CAS Nbr	Classification	Regulation
Lead sulfochromate yellow	1344-37-2	Carc. 1B	Regulation (EC) No. 1272/2008, Table 3.1
Lead sulfochromate yellow	1344-37-2	Carc.Cat.2	Regulation (EC) No. 1272/2008, Table 3.2
Lead chromate molybdate sulfate red	12656-85-8	Carc. 1B	Regulation (EC) No. 1272/2008, Table 3.1

Lead chromate molybdate sulfate red	12656-85-8	Carc.Cat.2	Regulation (EC) No. 1272/2008, Table 3.2

Global inventory status
Contact 3M for more information.

15.2. Chemical Safety Assessment
Not applicable

SECTION 16: Other information

List of relevant H statements

H350	May cause cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

List of relevant R-phrases

R33	Danger of cumulative effects.
R45	May cause cancer.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.

Revision information:
Revision Changes:
Section 14: Transportation classification information was deleted.
Section 14: Transportation classification information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M United Kingdom MSDSs are available at www.3M.com/uk