

Product Data Sheet



5**3/448 Range: medicote High Build, Fast Dry Acid Catalyst Lacquer

Code	Description	Code	Description
5901/448	90% Sheen	5203/448	20% Sheen
5503/448	50% Sheen	5103/448	10% Sheen
5403/448	40% Sheen	5CAT/200	Acid Catalyst (9:1)
5303/448	30% Sheen	Thinners	2007/900

Technical Data	A very quick drying and easy sanding acid catalyst lacquer designed for manual or automatic spray application.
Properties	<p>This Range of lacquers is uniquely formulated to prevent bacteria surviving on its surface. This product will prevent the spread of <i>Staphylococcus aureus</i> (MRSA), <i>Escherichia coli</i> 0157 (e.coli), <i>salmonella enteritidis</i>, <i>Bacillus cereus</i> (food poisoning) and other similar bacteria (see relevant test certificate) with a kill rate of 99% within 24hrs.</p> <p>Additionally, the Range is formulated to provide outstanding resistance to abrasion, wet and dry heat, spirit solutions and a wide range of household chemicals.</p> <p>Meets the requirements of BS (FIRA Std) 6250 for horizontal surfaces (excluding kitchen worktops) and rated as heavy/severe use.</p> <p>Lacquers of this type achieve their full resistance properties after 21 - 28 days drying, although careful use is possible before this period.</p>
Mixing Guidelines	Catalyse 9 parts lacquer to 1 part 5CAT/200 by volume and mix well prior to use. The catalysed lacquer should ready for use (RFU) but can be thinned up to 5% by volume with the recommended thinner, 2007/900, if required. Under normal conditions these products will have a workable pot-life of 36 hours after catalysis.
Typical Handling	<p>Touch Dry: 15-20 mins @ 18°C</p> <p>Sandable: 1 hour @ 18°C – Use 320 or finer silicone carbide paper.</p> <p>Recoatible: 1.5 hours @ 18°C</p> <p>Packing time: Overnight minimum, dependent on conditions.</p>
Cleaning	2007/100 should be used for equipment cleaning.
Coverage	Approximately 40m ² per 5Lts dependent upon the size, orientation and surface quality of the item being coated.
Tinting	Use Morrells Light Fast Stains up to a maximum of 5% (after catalysis).
System Guidelines	<p>Morrells recommends the following guidance for use of this product range:</p> <p>Typical Finish: 2-3 coats at 75g/m² per coat (Dry Film Thickness ~ 31µ per coat) applied coat-on-coat.</p> <p>Using these products in systems outside these guidelines can lead to immediate and latent problems with the integrity of the finish.</p>

For further technical information contact our Technical Support Team on 0161 406 5300

This information is provided in good faith and without prejudice

Important Information	<ul style="list-style-type: none"> ➤ Designed for spray application. ➤ Excessive coating weights can lead to cracking or lifting. ➤ Under catalysing or over catalysing can cause impairment of cure and cracking. ➤ Leave adequate time between coats. Do not apply more than 3 coats in one day. Denib between coats to aid adhesion. ➤ Do not overcoat with 1K or 2K Polyurethane (PU) products. ➤ Morrells do not recommend the mixing of catalysed material with fresh material. Always catalyse the right amount for the job. ➤ Use only the recommended thinner. Use of non-recommended thinner can cause uneven/patchy drying. ➤ Do not use over pigmented bases or with NC, Shellac or Precatalysed Sealers. ➤ Some timbers (e.g. cherry, maple etc) are prone to discoloration or reddening when using acid catalyst lacquers. ➤ It is recommended that a test area/panel should be prepared prior to commencement. ➤ Product should be stored above 5°C and protected from frost. ➤ Optimum application is achieved between 18°C and 22°C with good air movement and ventilation. ➤ Finished products should not be subjected to environments with temperatures of < 2°C. ➤ The use of antibacterial and/or bleach containing cleaners is not recommended. ➤ Out of scope with 2004/42/EC.
Health & Safety	<p>Reference should be made to the appropriate MSDS for this product range, which can be found at www.morrells.co.uk</p> <p>The use of appropriate personal protection equipment (PPE) is recommended.</p> <p>These products are intended for professional use only.</p>

For further technical information contact our Technical Support Team on 0161 406 5300

This information is provided in good faith and without prejudice

SAFETY DATA SHEET

5901/448 Range of Medicote High Build fast Dry Melamine Lacquer

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	5901/448 Range of Medicote High Build fast Dry Melamine Lacquer
APPLICATION	Industrial wood coating.
SUPPLIER	Morrells Woodfinishes Ltd Wellington Works Mill Lane, Woodley Stockport England SK6 1RN 0161 406 5300 0161 406 6276 enquiries@morrells.co.uk
EMERGENCY TELEPHONE	0161 406 5300 DURING OFFICE HOURS

2 HAZARDS IDENTIFICATION

Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) R10, R52/53, R66, R67.

ENVIRONMENT

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

PHYSICAL AND CHEMICAL HAZARDS

Vapours are heavier than air and may travel along the floor and in the bottom of containers.

HUMAN HEALTH

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Product has a defatting effect on skin.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	1-5%	R10 R67
BUTYL ACETATE -norm	204-658-1	123-86-4	30-60%	R10 R66 R67
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
METHANOL	200-659-6	67-56-1	< 1%	F;R11 T;R23/24/25,R39/23/24/25
PROPAN-1-OL	200-746-9	71-23-8	1-5%	F;R11 Xi;R41 R67
SOLVENT NAPHTHA LOW BOILING POINT	265-199-0	64742-95-6	< 1%	Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.
TRICLOSAN	222-182-2	3380-34-5	< 1%	Xi;R36/38 N;R50/53

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The data shown are in accordance with the latest EC Directives.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. If respiratory problems, artificial respiration/oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

5901/448 Range of Medicote High Build fast Dry Melamine Lacquer**INGESTION**

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Get medical attention.

SKIN CONTACT

Use appropriate hand lotion to prevent defatting and cracking of skin. Remove affected person from source of contamination. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Use: Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable.

SPECIAL FIRE FIGHTING PROCEDURES

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

SPECIFIC HAZARDS

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SPILL CLEAN UP METHODS

Keep combustibles away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Do not use contact lenses. Avoid spilling, skin and eye contact. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1-METHOXY-2-PROPANOL	WEL	100 ppm(Sk)	375 mg/m ³ (Sk)	150 ppm(Sk)	560 mg/m ³ (Sk)	
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³	
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
METHANOL	WEL	200 ppm	266 mg/m ³	250 ppm	333 mg/m ³	
PROPAN-1-OL	WEL	200 ppm(Sk)	500 mg/m ³ (Sk)	250 ppm(Sk)	625 mg/m ³ (Sk)	

WEL = Workplace Exposure Limit.

5901/448 Range of Medicote High Build fast Dry Melamine Lacquer**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**PROCESS CONDITIONS**

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

HAND PROTECTION

Protective gloves and goggles must be used if there is a risk of direct contact or splash.

EYE PROTECTION

Contact lenses should not be worn when working with this chemical! Wear approved safety goggles.

OTHER PROTECTION

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear, yellowish liquid
ODOUR	Characteristic
BOILING POINT (°C)	100
FLASH POINT (°C)	22
VOLATILE ORGANIC COMPOUND (VOC)	532 to 542 g/litre

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION**INHALATION**

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

INGESTION

Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

Repeated exposure may cause skin dryness or cracking.

EYE CONTACT

Irritating and may cause redness and pain.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

5901/448 Range of Medicote High Build fast Dry Melamine Lacquer**GENERAL INFORMATION**

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Make sure containers are empty before discarding (explosion risk).

14 TRANSPORT INFORMATION

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
UN NO. ROAD	1263
ADR CLASS NO.	3
ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III
TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	33
ADR LABEL NO.	3
HAZCHEM CODE	3Y

15 REGULATORY INFORMATION**RISK PHRASES**

R10	Flammable.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE	21/03/2012
REV. NO./REPL. SDS GENERATED	1

5901/448 Range of Medicote High Build fast Dry Melamine Lacquer

RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

SAFETY DATA SHEET

5CAT/200 MEDIUM STRENGTH CATALYST

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	5CAT/200 MEDIUM STRENGTH CATALYST
PRODUCT NO.	5CAT/200
APPLICATION	Industrial wood coating. Catalyst
SUPPLIER	Morrells Woodfinishes Ltd Wellington Works Mill Lane, Woodley Stockport England SK6 1RN 0161 406 5300 0161 406 6276 enquiries@morrells.co.uk
EMERGENCY TELEPHONE	0161 406 5300 DURING OFFICE HOURS

2 HAZARDS IDENTIFICATION

Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

This product does not contain any PBT or vPvB Substances.

CLASSIFICATION (1999/45) Xn;R20/21/22, R68/20/21/22. F;R11.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
ETHANOL	200-578-6	64-17-5	60-100%	F;R11
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
TOLUENESULPHONIC ACID -para <= 5% H2SO4	203-180-0	104-15-4	10-30%	Xi;R36/37/38

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames! Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention immediately! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

5CAT/200 MEDIUM STRENGTH CATALYST**EXTINGUISHING MEDIA**

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
METHANOL	WEL	200 ppm	266 mg/m ³	250 ppm	333 mg/m ³	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless-pale yellow liquid
ODOUR	Characteristic
BOILING POINT (°C)	78

5CAT/200 MEDIUM STRENGTH CATALYST**FLASH POINT (°C)** 12 CC (Closed cup).**VOLATILE ORGANIC COMPOUND (VOC)** 701 g/litre**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTSFire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).**11 TOXICOLOGICAL INFORMATION****GENERAL INFORMATION**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapours may cause headache, fatigue, dizziness and nausea. Vapour may irritate respiratory system or lungs.

INGESTION

Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs. Narcotic effect.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

Irritating to eyes. Vapour or spray may cause temporary (reversible) eye damage.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Respiratory system, lungs

MEDICAL SYMPTOMS

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

There are no data on the ecotoxicity of this product.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

Proper Shipping Name	FLAMMABLE LIQUID, NOS
Proper Shipping Name	PAINT OR PAINT RELATED PRODUCTS
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.
UN NO. ROAD	1263
ADR CLASS NO.	3

5CAT/200 MEDIUM STRENGTH CATALYST

ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	5(c)
HAZARD No. (ADR)	33
ADR LABEL NO.	3
UN NO. SEA	1263
IMDG CLASS	3.2
UN NO. AIR	1263
AIR CLASS	3

15 REGULATORY INFORMATION**LABELLING**

Harmful



Highly Flammable

CONTAINS

METHANOL

RISK PHRASES

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S60	This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE 20/12/2011

**REV. NO./REPL. SDS
GENERATED** 2

RISK PHRASES IN FULL

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Product Data Sheet



2007/ Range: Thinners, Retarders & Pullovers

Code	Description	Code	Description
2007/000	Cellulose Thinners	2007/300	Medium Pullover
2007/100	Gun Cleaner	2007/301	Strong Pullover
2007/200	Anti-Chill Thinners	2007/900	Hydrocarbon Free Thinners
2007/201	Retarder		

Technical Data	A range of quality thinners formulated with 'virgin' solvents and with no addition of recycled solvents. Each type is specifically designed so as not to adversely affect the solvent balance of the product ranges it can be used with.
2007/000	A blend of esters, hydrocarbons and alcohols designed for optimum viscosity reduction of Nitrocellulose and Precatalyst sealers and topcoats.
2007/100	A blend of solvents designed to offer the most effective 'dissolving' action to remove dried lacquer residues from spray guns and other finishing equipment. This product should not be used to 'thin' lacquers as it's combined evaporation rate is much too fast, and will lead to patchy drying and potential cracking of the film.
2007/200	A blend of mild solvents designed to overcome the effects of chilling when lacquers are applied in conditions of low ambient temperatures or high atmospheric humidity.
2007/201	A blend of slow-evaporating solvents designed to keep the surface of the film 'open' a little longer than normal to help improve flow and leveling when applied in warm conditions. Too much airflow over the coated surface can also cause the need for an addition of Retarder.
2007/300	A medium solvency blend formulated for the 'pulling over' of nitrocellulose and some precatalyst finishes.
2007/301	A stronger version of 2007/300.
2007/900	A special thinner for the 9901/289 Range avoiding the use of aromatic hydrocarbons. Can also be used to thin other recommended systems (refer to specific product data sheets).
Important Information	<ul style="list-style-type: none"> ➤ The use of inappropriate thinners can lead to cracking, lifting and whitening of the lacquer film. ➤ Use of non-recommended thinner can cause uneven/patchy drying. ➤ As most our product range is supplied 'ready for use' we recommend that no more than 5% by volume of any of these thinners should be added. For in-depth technical advice on either optimum thinning or the use of 'pullovers' please contact our Technical Support Department. ➤ Optimum application is achieved between 18°C and 22°C with good air movement and ventilation.

For further technical information contact our Technical Support Team on 0161 406 5300

This information is provided in good faith and without prejudice

	<ul style="list-style-type: none">➤ Users should prepare a test panel prior to commencement and satisfy themselves that the specific system provides the appearance and level of performance appropriate for the end-use.➤ Product should be stored above 5°C and protected from frost.➤ Finished products should not be subjected to environments with temperatures of < 2°C.➤ Out of scope with 2004/42/EC.
Health & Safety	<p>Reference should be made to the appropriate MSDS for this product range, which can be found at www.morrells.co.uk</p> <p>The use of appropriate personal protection equipment (PPE) is recommended.</p> <p>These products are intended for professional use only.</p>

For further technical information contact our Technical Support Team on 0161 406 5300

This information is provided in good faith and without prejudice

SAFETY DATA SHEET

2007/900 HCF CELLULOSE THINNERS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	2007/900 HCF CELLULOSE THINNERS
APPLICATION	Industrial wood coating.
SUPPLIER	Morrells Woodfinishes Ltd Wellington Works Mill Lane, Woodley Stockport England SK6 1RN 0161 406 5300 0161 406 6276 enquiries@morrells.co.uk
EMERGENCY TELEPHONE	0161 406 5300 DURING OFFICE HOURS

2 HAZARDS IDENTIFICATION

Highly flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

This product does not contain any PBT or vPvB Substances.

CLASSIFICATION (1999/45) F;R11. R66, R67.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %	Classification (67/548)
BUTYL ACETATE -norm	204-658-1	123-86-4	10-30%	R10 R66 R67
ETHANOL	200-578-6	64-17-5	30-60%	F;R11
ISOBUTYL ACETATE	203-745-1	110-19-0	10-30%	F;R11 R66
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

GENERAL INFORMATION

NOTE! Keep affected person away from heat, sparks and flames! Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INHALATION

Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Provide rest, warmth and fresh air. Get medical attention immediately! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5 FIRE-FIGHTING MEASURES

2007/900 HCF CELLULOSE THINNERS**EXTINGUISHING MEDIA**

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6 ACCIDENTAL RELEASE MEASURES**SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use explosion proof electric equipment.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
BUTYL ACETATE -norm	WEL	150 ppm	724 mg/m ³	200 ppm	966 mg/m ³	
ETHANOL	WEL	1000 ppm	1920 mg/m ³			
ISOBUTYL ACETATE	WEL	150 ppm	724 mg/m ³	187 ppm	903 mg/m ³	
METHANOL	WEL	200 ppm	266 mg/m ³	250 ppm	333 mg/m ³	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level.

HAND PROTECTION

Use protective gloves.

EYE PROTECTION

Use approved safety goggles or face shield.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

2007/900 HCF CELLULOSE THINNERS

APPEARANCE	Liquid
ODOUR	Characteristic
BOILING POINT (°C)	104
FLASH POINT (°C)	17
VOLATILE ORGANIC COMPOUND (VOC)	827 g/litre

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat. Avoid contact with oxidisers or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

11 TOXICOLOGICAL INFORMATION**GENERAL INFORMATION**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

Vapours may cause headache, fatigue, dizziness and nausea. Vapour may irritate respiratory system or lungs.

INGESTION

Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
Narcotic effect.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

EYE CONTACT

Irritating to eyes. Vapour or spray may cause temporary (reversible) eye damage.

ROUTE OF ENTRY

Inhalation. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Respiratory system, lungs

MEDICAL SYMPTOMS

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

There are no data on the ecotoxicity of this product.

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

Proper Shipping Name

PAINT OR PAINT RELATED PRODUCTS

**ENVIRONMENTALLY
HAZARDOUS
SUBSTANCE/MARINE
POLLUTANT**

No.

2007/900 HCF CELLULOSE THINNERS

UN NO. ROAD 1263
 ADR CLASS NO. 3
 ADR CLASS Class 3: Flammable liquids.
 ADR PACK GROUP II
 TUNNEL RESTRICTION CODE (D/E)
 ADR LABEL NO. 3

15 REGULATORY INFORMATION**LABELLING**

Highly Flammable

RISK PHRASES

R11 Highly flammable.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

S9 Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S37 Wear suitable gloves.
 S51 Use only in well-ventilated areas.
 S60 This material and its container must be disposed of as hazardous waste.

STATUTORY INSTRUMENTS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

16 OTHER INFORMATION

REVISION DATE 23/06/2011

REV. NO./REPL. SDS 1
 GENERATED

RISK PHRASES IN FULL

R10 Flammable.
 R11 Highly flammable.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

Client: **Morrells Woodfinishes Ltd**
Wellington Works
Mill Lane
Woodley
Stockport
Cheshire
SK6 1RN

Job Ref: **05H0547**
Sample Ref No.: **LSN 27/11128**
Date Received: **25/07/2005**
Date Reported: **08/09/2005**

CERTIFICATE OF ANALYSIS

Medicoat AC 448

Meth. Desc **Modified AATCC 100**

Reference **W2268**

Test	Result	Unit	Est
Staphylococcus aureus	99.9	%	Reduction After 24Hrs
Escherichia coli 0157	99.9	%	Reduction After 24Hrs
Salmonella enteritidis	99.9	%	Reduction After 24Hrs
Klebsiella pneumoniae	99.8	%	Reduction After 24Hrs
Staphylococcus aureus (Resistant Strain)	99.9	%	Reduction After 24Hrs
Aspergillus niger	78.2	%	Reduction After 48Hrs
Pseudomonas aeruginosa	99.9	%	Reduction After 24Hrs
Penicillium purpurogenum	99.9	%	Reduction After 48Hrs
Bacillus cereus	98.7	%	Reduction After 24Hrs
Saccharmyces cerevisiae	99.6	%	Reduction After 24Hrs

Comment: **Tested against a glass control**

The microbiological results demonstrate that the material under test inhibits the growth of the above listed microbial strains.



R.P.Elliott

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