

Product Data Sheet



0170/000 – 0198/300 : Light Fast Stains

100/ - 110/ : Special Colour Light Fast Stains

Code	Description	Code	Description
0170/000	LF Thinners	0181/600	Repro. Mahogany
0171/000	Violet	0182/000	Golden Oak
0172/000	Black	0182/100	Light Oak
0174/000	Light Blue	0182/200	Medium Oak
0175/000	Red	0182/300	Dark Oak
0176/000	Blue	0182/400	Jacobean Oak
0177/000	Orange	0188/000	Teak
0178/000	Yellow	0190/000	Walnut
0180/001	New Green	0191/000	Yew
0181/000	Mahogany	0191/100	Antique Yew
0181/100	Natural Mahogany	0198/000	Antique Pine
0181/200	Brown Mahogany	0198/100	Honey Pine
0181/300	Dark Mahogany	0198/200	Victorian Pine
0181/400	Plum Mahogany	0198/300	Stripped Pine
0181/500	New Rosewood		

Technical Data	<p>A range of fast drying alcohol-based stains suitable for hand, spray or dip application and particularly suitable in the finishing systems used for wooden flooring and parquet.</p> <p>The standard range consists of popular primary colours and a selection of the most widely used wood colours.</p>
Properties	<p>Formulated to provide excellent definition and depth of colour. This range is also suitable for tinting Morrells Precatalyst and Acid Catalyst lacquers up to a maximum of 5% by volume (AC's should be catalysed prior to tinting).</p>
Colour Matching	<p>Morrells provides a bespoke colour matching service for this type of stain and all the other stains on our range.</p> <p>All requests for special colours should be accompanied by a sufficient quantity of the timber to be used for the actual job plus full details of application method and finishing system to be employed.</p> <p>Requests for special stains for flooring should be clearly indicated i.e. "For Flooring" or "For Flooring application". Failure to provide this information may lead to an inappropriate stain being supplied. Morrells will not accept liability for this omission.</p>
Typical Handling	<p>Drying/Recoat time: 15 - 30 minutes @ 18°C.</p> <p>For Flooring applications a minimum of 2 hours before applying sealers & topcoats is recommended.</p> <p>Packing time: Overnight minimum dependent on conditions.</p>



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Registered Office: Morrells Woodfinishes Limited. Company no. 785935 VAT. Reg No GB 712 5048 66



<p>Cleaning</p>	<p>0170/000 or Methylated Spirits (R034) should be used for equipment thinning and cleaning.</p>
<p>Coverage</p>	<p>Approximately 40 - 60m² per 5Lts dependent upon the size, orientation and surface quality of the item being coated.</p>
<p>Application Guidelines</p>	<p><i>Substrate Preparation:</i> The substrate should be pre-sanded with 180 Grit paper prior to stain application to avoid problems such as patchy or uneven drying.</p> <p><i>Hand Staining:</i> Use a soft, white, lint-free cloth. Avoid using coloured or printed rags as the dyes used in printing can bleed into the stain and cause discolouration. Apply the stain wet to the whole surface to avoid uneven penetration and then remove excess with a clean cloth. For larger surfaces it may be appropriate to apply the stain in sections. Always work along the grain when cleaning off.</p> <p>For floors it may be appropriate to apply the stain by suitable pad type applicator in sections along the grain keeping a wet edge to allow seamless blending between sections and leaving a minimum of 2 hours to dry before applying sealers & topcoats.</p> <p><i>Spray Application:</i> Spray apply an even wet coat and remove excess with a soft, white, lint-free cloth. When dry spraying ensure an even coat is applied and that the gun strokes follow the grain of the timber. Dry spraying needs a certain skill level, and if undertaken incorrectly can lead to patchiness and 'striping'. The wiping-off process can enhance the evenness of the colour and highlight the grain definition and the natural figuring of the substrate. Thinning with 50% 0170/000 –LF Thinners can assist in controlling the spray staining operation, but may change the tone or strength of shade.</p> <p><i>Dip Application:</i> Plunge or controlled dip can be undertaken and it is advisable to wipe excess stain off with a clean, white, lint-free cloth to achieve an even degree of staining.</p>
<p>Important Information</p>	<ul style="list-style-type: none"> ➤ Always order enough product from the same batch of material to complete the job, as natural batch to batch variance can occur. ➤ Morrells Stain Ranges are manufactured on different dyestuffs to unique formulations and as a consequence are not designed to be an exact replication of each other. ➤ If switching from one stain type to another always undertake a colour check prior to use. ➤ Variances in timber can change the appearance of a stain – always prepare a test panel/area to approve the colour/finish on the actual timber being used. ➤ 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. ➤ Out of scope with 2004/42/EC.



Health & Safety

Reference should be made to the appropriate MSDS for this product range, which can be found at www.morrells.co.uk

The use of appropriate personal protection equipment (PPE) is recommended.

These products are intended for **professional use** only.

The information provided on this information sheet is based on the best of our knowledge and experience, is given in good faith and should only be regarded as recommendations. No guarantee should be inferred and customers are advised to carry out their own tests under local conditions.

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



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**SAFETY DATA SHEET
LIGHT FAST STAINS**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name LIGHT FAST STAINS
Product No. 0170/000 to 0198/300 and 100/ to 110/

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

Identified uses Industrial wood coating.

1.3. Details of the supplier of the safety data sheet

Supplier: Morrells Woodfinishes Ltd
Wellington Works
Mill Lane, Woodley
Stockport
England
SK6 1RN
0161 406 5300
0161 406 6276
enquiries@morrells.co.uk

1.4. Emergency telephone number

0161 406 5300 DURING OFFICE HOURS

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical	Flam. Liq. 2 - H225
Health	Acute Tox. 4 - H302;Acute Tox. 4 - H312;Acute Tox. 4 - H332;Eye Irrit. 2 - H319;STOT Single 2 - H371
Environmental	Not classified.

Classification (1999/45) Xn;R20/21/22, R68/20/21/22. Xi;R36. F;R11.

2.2. Label elements

Contains: METHANOL

Label In Accordance With (Ec) No. 1272/2008



Signal Word Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H371	May cause damage to organs .

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

LIGHT FAST STAINS

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.

Supplementary Precautionary Statements

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P309+311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P322	Specific measures (see ... on this label).
P330	Rinse mouth.
P337	If eye irritation persists:
P363	Wash contaminated clothing before reuse.
P370+378	In case of fire: Use ... for extinction.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to ...

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

4-HYDROXY-4-METHYLPENTAN-2-ONE	10-30%
CAS-No.: 123-42-2	EC No.: 204-626-7
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548) Xi;R36
ETHANOL	60-100%
CAS-No.: 64-17-5	EC No.: 200-578-6
Classification (EC 1272/2008) Flam. Liq. 2 - H225	Classification (67/548) F;R11
METHANOL	5-10%
CAS-No.: 67-56-1	EC No.: 200-659-6

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Classification (EC 1272/2008)
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT Single 1 - H370

Classification (67/548)
F;R11
T;R23/24/25,R39/23/24/25

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

SECTION 4: FIRST AID MEASURES

4.1. Description of 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.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

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

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage, including any incompatibilities

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.

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7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
4-HYDROXY-4-METHYLPENTAN-2-ONE	WEL	50 ppm	241 mg/m3	75 ppm	362 mg/m3	
ETHANOL	WEL	1000 ppm	1920 mg/m3			
METHANOL	WEL	200 ppm	266 mg/m3	250 ppm	333 mg/m3	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid
Colour	Varying
Initial Boiling Point and Boiling Range:	78
Flash Point (°C)	12

9.2. Other information

Volatile Organic Compound (VOC) 810 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat. Avoid contact with oxidisers or reducing agents.

10.5. Incompatible materials

LIGHT FAST STAINS

10.6. Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. The packaging must be empty (drop-free, when inverted)

13.1. Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2 UN Proper Shipping Name

Proper Shipping Name PAINT OR PAINT RELATED PRODUCTS

Proper Shipping Name FLAMMABLE LIQUID, NOS

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

LIGHT FAST STAINS

ADR Label No. 3
IMDG Class 3.2
ICAO Class/Division 3
Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group 5(c)

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Hazard No. (ADR) 33
Tunnel Restriction Code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Classification, Labelling and Packaging of substances and mixtures Regulations EC 1272/2008 (CLP) and amendments

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. Spraying of Highly Flammable Liquids EH9.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Issued By HS&E Manager.
Revision Date 15/09/2015
Revision 3
Supersedes Date 23/06/2011
Safety Data Sheet Status Approved.

Risk Phrases In Full

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

Hazard Statements In Full

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H370 Causes damage to organs <<Organs>>.