

SAFETY DATA SHEET

Product & Reference: IN7LD027 Satin Acid Catalysed Lacquer

Date of Issue: 11/12/02

VERSION: Revision 4

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1. IDENTIFICATION OF THE PREPARATION AND COMPANY

Product code and name: IN7LD027 Satin Acid Catalysed Lacquer.

Intended use: A satin acid catalysed lacquer for spray application to most commonly available timbers and veneers for interior furniture and fittings.

Name, address and telephone number: Akzo Nobel Industrial Coatings Ltd, PO Box 37, Crown House, Hollins Road, Darwen, Lancashire, United Kingdom, BB3 OBG. Telephone: +44 (0)1254 760760

Emergency telephone number: +44 (0)1254 760760

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of Chemicals (Hazard Information and packaging) Regulations or assigned occupation exposure limits.

Substance	Concentration Range %	Symbol Letter	R-phrases (*)	EINECS/ELINCS No.	CAS No.
Ethanol	>10 ≤25%	-	-	200-578-6	64-17-5
Ethyl Acetate	>5 ≤10%	Xi	R36, R66, R67	205-500-4	141-78-6
Butyl Acetate	>25 ≤50%	-	R66, R67	204-658-1	123-86-4
Propan-2-ol	>1 ≤10%	Xi	R36, R67	200-661-7	67-63-0

(*) for full text see Section 16

3. HAZARDS IDENTIFICATION

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Avoid breathing spray mist and vapour during application and drying. Highly flammable liquid and vapour, keep away from sources of ignition.

4. FIRST AID MEASURES

General:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in a prone position with head to the side (recovery position) and seek medical advice.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

Skin Contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.

Ingestion:

If accidentally swallowed obtain immediate medical attention, preferably at the nearest hospital accident emergency unit. Show this safety data sheet. Keep at rest. Do NOT induce vomiting. If conscious give milk or water to drink.

5. FIRE FIGHTING MEASURES

Extinguishing media:

Recommended: alcohol resistant foam, CO₂, powder

Not to be used: water jet.

Recommendations:

Fire will produce dense black smoke containing hazardous product of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilated the area. Warn others of the dangers present and exclude non-essential personnel. Avoid breathing vapours. Floors may become slippery. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, eg, sand, earth, vermiculite, diatomaceous earth and place in a clearly labelled suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses.

Clean preferably with a detergent; avoid the use of solvents.

If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of stream, rivers or lakes, the relevant environment agency.

7. HANDLING AND STORAGE

Handling

Apply product only in accordance with methods stated in Section 1. Solvent vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking should be prohibited in areas of storage and use.

For Occupational Exposure Controls measures, see Section 8.

Never use pressure to empty; the container is not a pressure vessel.

Always keep in containers made of the same material as the supply container.

The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion.

Good housekeeping standards and regular safe removal of waste materials and regular maintenance of spray booth filters will minimise risks of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulations 1992 may apply to the handling of containers of this product. To assist employers the following method of calculating the weight for any pack size is given.

Take the pack size volume in litres and multiply this figure by the specific gravity value given in Section 9. This will give the nett weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

Storage

The storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972. Up to 50 litres may be kept in a work room provided it is kept in a fire proof cupboard or bin. Larger quantities must be kept in a separate store room conforming to the structural requirements of the regulations.

Further guidance is contained in HSE guidance note HS(G)51 "Storage of Flammable Liquids in Containers".

Observe the label precautions. Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE's guidance note HS(G)71 "Storage of Packaged Dangerous Substances" should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

All engineering control measures used to control exposure to hazardous substances must be selected, maintained, examined and tested to meet the requirements of the Control of Substances Hazardous to Health Regulations (COSHH). Similarly all personal protective equipment, including respiratory protective equipment, must be selected, issued and maintained to meet the requirements of COSHH. These requirements include the provision of any necessary information, instruction and training with regard to their use.

Exposure Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (See "Occupational Exposure Controls" below).

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Exposure Limit Values

Substance	8 hr TWA		15 min STEL		Notations
	Ppm	mg m ⁻³	ppm	mg m ⁻³	
Ethanol	1000	1920 OES	-	-	
ethyl acetate	200	--- OES	400	- OES	
butyl acetate	150	724 OES	200	966 OES	
propan-2-ol	400	999 OES	500	1250 OES	

Notes:

OES	-	occupational exposure standard (EH40 table 2)
MEL	-	maximum exposure limit (EH40 table 1/COSHH Schedule 1)
SUP	-	OEL assigned by the supplier of the substance
TWA	-	time weighted average
ppm	-	parts per million
mg m ⁻³	-	milligrams per cubic metre
Sk	-	indicates a risk of absorption through skin
Sen	-	indicates a respiratory sensitiser
STEL	-	short term exposure limit
Bmgv	-	biological monitoring may be appropriate
ILV	-	indicative limit value
IOELV	-	indicative occupational exposure limit value

Occupational Exposure Controls

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

Respiratory protection:

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn. Where high levels of solvent vapour are likely to arise (eg, confined spaces) air-fed respiratory protective equipment should be worn.

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

Hand Protection:

Where skin exposure may occur wear impervious gloves, advice should be sought from glove suppliers on appropriate types, and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye Protection:

Eye protection designed to protect against liquid splashes should be worn.

Skin Protections:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

Environmental exposure control:

See Section 12 for detailed information.

9. PHYSICAL AND CHEMICAL PROPERTIES

physical state:	clear free flowing liquid	
flash point:	3°C Abel closed cup	method: BS3900 Part A9
viscosity:	120-130 secs B4 @ 21°C	method: BS3900 Part A6
specific gravity:	0.97 Kg/L @ 21°C	method: BS3900 Part A12
vapour density:	heavier than air	
lower explosion limit:	0.8% vv suggested figure. No data available on product itself.	
solubility in water:	Immiscible	

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10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions. (See section 7). In a fire, hazardous decomposition and products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See sections 3 and 15 for details of the resulting hazard classification.

Inhalation

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include coughing, headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Skin

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Eyes

Splashes in the eyes may cause irritation and reversible local damage.

Ingestion

Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself.

The product has been assessed following the conventional method in CHIP and is not classified as dangerous for the environment.

The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. LAPC/LAPPC/IPPC requirements of regulations made under the Environmental Protection Act/Pollution Prevention and Control Act may apply to the use of this product.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using the information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the special waste regulations apply.

14. TRANSPORT INFORMATION

Transport within users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

Onward transport, subsequent to purchase:

Transport to be in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport

Class: 3

Sub Hazard: --

Packing Group: III

Ensure drivers have adequate training.

Proper Shipping Name: Paint

UN Number: 1263

For international road/rail transport:

Class: 3

Packing Group: III

For Sea Transport:

Marine Pollutant: NO

EmS: 3.05

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15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information and Packaging) Regulations as follows:

HIGHLY FLAMMABLE

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Keep containers tightly closed and in a well ventilated place.

Keep away from sources of ignition - no smoking.

Do not breathe fumes/vapour/spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Text of R phrases listed in Section 2

R No:	Phrase
R36	Irritating to eyes
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instruction.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

Further guidance on OELs and the assessment of occupational exposure to substances hazardous to health is given in "EH40 : Occupational exposure limits" published by the HSE.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:

The Control of Substances Hazardous to Health Regulations 1999 (SI 1999 : 437)

COSHH Essentials: easy steps to control chemicals, HS (G) 193. Details of available Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in HS (G) 193

The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972 : 917)

The Manual Handling Operations Regulations 1992 (SI 1992 : 2793)

Chemical Warehousing: Storage of Flammable Liquids in Containers, HS(G)51

Chemical Warehousing: Storage of Packaged Dangerous Substances, HS(G)71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992 : 2839)

Spraying of highly flammable liquids EH9 (HSE)

Guide to Working with Solvents, INDG 272.

Revision 3

Sections 1, 2, 7, 8, 11, 12, 13, 14 and 16 have been revised.

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PRODUCT DATA SHEET

Product & Reference: IN7LD027/IL130 Satin Acid Catalysed Lacquer

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IN7LD027/IL130 SATIN ACID CATALYSED LACQUER

A satin acid catalysed lacquer designed for spray application to most commonly available timbers and veneers for interior furniture and fittings. This material contains less than 1% aromatic hydrocarbons to help reduce carbon emissions. Its low formaldehyde content has been tested by the Danish Technological Institute and conforms to the E1 emission limits for formaldehyde.

Acid curing lacquers may cause a red discolouration on beech, maple, cherry or redwood substrates - make careful checks before use. This lacquer must not be used to overcoat IN7NA Range Traff A/C Enamel, but can be used over TX200.

PHYSICAL PROPERTIES

Weight per litre	0.97 ± 0.02 Kg/L @ 21°C
Viscosity	120 - 130 secs B4 cup @ 21°C
Flash point	3°C
Weight solids	35% ± 2%
Gloss level	30% ± 5% (ASTM 60<)

HEALTH AND SAFETY

This product is intended for use by professional applicators in industrial situations in accordance with the advice given on the Health and Safety Data Sheet and the containers. If for any reason a copy of the relevant Health and Safety Data Sheet is not immediately available, the user should contact Akzo Nobel Industrial Coatings to obtain a copy before using the product.

APPLICATION DETAILS

- | | | |
|----|--------------------|---|
| 1) | Substrate | Most commonly available timbers and veneers for interior use. |
| 2) | Application method | Spray |
| 3) | Mixing ratio | Catalyse 10 litre IN7LD027 with 1 litre IN7QC084
Catalyse this product in lacquered tins or plastic containers only. |
| 4) | Thinners | Use IN7QS108 |
| 5) | Drying times | (@ approx. 110 g/m ²) |

Temperature	20°C	40°C	60°C	IR
Sandable	1 hr	20 mins	10 mins	60 - 120 secs
Stackable	3 hrs	40 mins	15 mins	60 - 120 secs

This lacquer should be dried at temperatures above 18°C. At temperatures below 18°C the surface hardness and performance of the paint film may be impaired.

- | | | |
|----|----------|---------------|
| 6) | Cleaners | Use IN7QS108 |
| 7) | Pot Life | 24 - 48 hours |

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STORAGE CONDITIONS

Store in a cool, dry, well ventilated place away from sources of heat and flame.

SHELF LIFE

12 months in unopened containers.

INTENDED USE

Do not use acid catalysed lacquers over naphtha based stains or sanding sealers containing stearate. Recommended stains: IN7JB Range. Recommended sanding sealer: IN7LX024 and IN7LX025.

USE OF GRAIN FILLERS

Grain fillers may be slow drying, or contain naphtha. Do not use grain fillers in conjunction with this lacquer, or sanding sealer, without fully checking its compatibility.

This Data Sheet supersedes all previous Data Sheets supplied to you relating to this product. It contains important information which must be communicated to the user. The user must satisfy himself of the suitability of the product for the intended application and surface, as surface and application conditions are beyond Akzo Nobel Industrial Coatings Ltd control. The user must also satisfy himself of the suitability of the product in circumstances other than those set out in this Data Sheet. The user must also maintain appropriate quality control procedures. Akzo Nobel Industrial Coatings Ltd is always willing to answer user's enquiries regarding its products.