



Safety Data Sheet

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

1.1. Product identifier

Trade name Tamiya Lacquer paints (Range of Colours)
Contains: Isopropyl alcohol, Propanol, Butanol

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

Lacquer paints for model and hobby crafts
Not advisable for spray application due to inhalation risk.

1.3. Details of the supplier of the safety data sheet

Name: The Hobby Company Ltd (*HobbyCo Ltd*)
Address: Garforth Place
Knowlhill
Milton Keynes
MK5 8PG
Telephone: +44 (0)1908 605 686
Email: service@hobbyco.net

1.4. Emergency telephone

For Great Britain:

111 for non-emergencies
999 for life-threatening emergencies

For Northern Ireland:

Telephone your GP for non-emergencies (during working hours)
Outside working hours, use the number for your area in the table below:

Area/town	Telephone
North and West Belfast	028 9074 4447
South and East Belfast	028 9079 6220
Ards and North Down	028 9182 2344
Lisburn and Downpatrick	028 9260 2204
Antrim Ballymena Ballymoney Cookstown Carrickfergus Coleraine Larne Magherafelt Moyle Newtownabbey council areas	028 2566 3500
Armagh and Dungannon Craigavon and Banbridge	028 3839 9201

Area/town	Telephone
Newry and Mourne	
Enniskillen	028 7186 5195
Omagh	
Strabane	
Derry/Londonderry	
Limavady	

999 for life-threatening emergencies

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Flammable Liquid Category 2, H225

Skin Irritation Category 2, H315

Eye Damage Category 1, H318

Specific Target Organ Toxicity Single Exposure Category 3, H335

Specific Target Organ Toxicity Single Exposure Category 3, H336

2.2. Label elements

Pictograms:



Signal Word: Danger

Hazard Statements:

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness

Precautionary Statements:

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Supplemental information on the label:

Contains Solvent Yellow 21. May produce an allergic reaction.

Label information where small pack derogation applies (<125ml):

Pictograms:





Signal Word: Danger

Hazard Statements:

Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness

Precautionary Statements:

Keep out of reach of children. Read label before use.

Supplemental information on the label:

Contains Solvent Yellow 21. May produce an allergic reaction.

2.3. Other hazards

Does not contain substances known to be endocrine disrupting to humans or the environment

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance name	Identification numbers (CAS, EC, Index)	% w/w or % v/v	REACH reg. no	CLP Classification	M-factors, SCLs, ATEs	Notes
2-Propanol, 1-methoxy-	107-98-2	1.00% - 25.00%		Flam. Liq. 3; H226 STOT SE 3; H336		*
Propyleneglycol monomethylether acetate	108-65-6	0.10% - 10.00%		Flam. Liq. 3; H226 STOT SE 3; H336		*
Ethanol, 2-butoxy-	111-76-2	1.00% - 10.00%		Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332		*
Mica	12001-26-2	1.00%-10.00%		not classified		*
Diacetone alcohol	123-42-2	1.00% - 20.00%		Eye Irrit. 2; H319	Eye Irrit. 2: ≥10%	*
Butyl acetate	123-86-4	1.00% - 25.00%		Flam. Liq. 3; H226 STOT SE 3; H336 EUH018		*
Carbon black	1333-86-4	0.10%-5.00%		not classified		*
Ethyl acetate	141-78-6	0.1% - 15.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 STOT SE 3; H336		*
Ethylcyclohexane	1678-91-7	0.10%-2.49%		Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	Acute M-factor = 1	
Dipropylene glycol monomethyl ether	34590-94-8	0.10%-15.00%		not classified		*
Butanol, 3-methoxy-3-methyl	56539-66-3	0.10% - 15.00%		Eye Irrit. 2; H319		
Titanium dioxide	13463-67-7	0.10%-20.00%		Not classified		*



Mineral Spirit	64742-88-7	0.10%-3.00%		Flam. Liq. 3; H226 Asp. Tox. 1; H304 Eye Irrit. 2; H319 STOT RE 1; H372 (central nervous...) Aquatic Chronic 2; H411		
Isopropyl alcohol	67-63-0	1.00% - 60.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*
2-methoxypropyl acetate	70657-70-4	0.10%-0.99%		Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Repr. 1B; H360D		*
1-Propanol	71-23-8	0.10%-25.00%		Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336		*
Butanol	71-36-3	0.10%-15%		Flam. Liq. 3; H226 Acute Tox. 4; H302 STOT SE 3; H335 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336		*
Aluminum powder	7429-90-5	0.10%-10.00%		Flam. Solid, 1; H228 Water-react. 2; H261		*
Barium Sulfate	7727-43-7	0.10%-5.00%		not classified		*
Solvent Yellow 21	5601-29-6	0.00-0.6%		Skin Sens. 1B; H317 Eye Irrit. 2; H319 Aquatic Chronic 3; H412		
Methyl ethyl ketone	78-93-3	0.10%-15.00%		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336		*

*Substances with an occupation exposure limit. For further information, see section 8.1.

For the full text of H-Statements referred to under Sections 2 and 3 of the SDS, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist seek medical attention.

If in contact with skin, wash immediately with soap and water. Wash contaminated clothing before reuse. If symptoms occur, seek medical attention.

In case of contact with eyes, immediately flush with water for at least 20 minutes. Remove contact lenses (if present) and continue rinsing. Get medical attention.

If swallowed DO NOT INDUCE VOMITING. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical attention.

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

Use in poorly ventilated or enclosed areas may result in drowsiness, dizziness, headaches, confusion and nausea. Inhalation of dust or spray will cause coughing, wheezing and shortness of breath. Contact with skin and eyes will cause redness, rash, itching and discomfort.

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



Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use water fog, dry chemical or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. Solvent vapours may form explosive mixture with air. Vapours are heavier than air and may spread near ground causing risk of flash back to ignition sources. Risk of explosion in closed containers if pressure rises rapidly. Containers should be kept cool with water spray in the event of fire.

In combustion, toxic gases and vapours will form including carbon monoxide and carbon dioxide.

Users should note that paint accessories, brushes, cloths etc... should also be considered flammable once used.

5.3. Advice for firefighters

In the event of fire, wear appropriate protective equipment and self-contained breathing apparatus (SCBA). Firefighter clothing must conform to a minimum standard of EN469 including helmets, protective boots and gloves.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material. Keep unnecessary persons away from the spillage. Prevent inhalation of spray, or creation of dusts/flakes of dried material. Use appropriate personal protective equipment to prevent direct contact with the material.

Emergency personnel should take into account the volume of the spillage and the likelihood of direct contact when selecting appropriate personal protective equipment. Do not breath vapours, mists or sprays.

6.2. Environmental precautions

Keep spills away from drains, surface water, groundwater, wells and boreholes or other infrastructure which may allow spills into groundwater.

6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Adequately ventilate the space.

Absorb spillage with inert dry material such as sand, earth or vermiculite and place in an appropriate non-flammable waste disposal container, avoiding the creation of dusts or respirable particulates. Dispose of via a licensed disposal contractor. Do not place into domestic waste. Do not flush into drains or watercourses.

6.4. Reference to other sections

See section 8 for information on personal protective equipment
See section 13 for additional waste disposal information



SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Do not breathe spray or mists. Do not eat drink or smoke whilst handling product. Ensure adequate ventilation and avoid breathing vapours.

If product has dried, minimise flaking or creation of dusts and fine particulates.

When sanding models which have been painted with this product, wear a dust mask with particulate filter to prevent inhalation of dusts.

7.2. Conditions for safe storage, including any incompatibilities

Store in the original container. Store upright to prevent spills or leakage. Ground and bond containers and transfer equipment. Eliminate sources of static electric sparks. Store away from oxidizing materials.

Store out of direct sunlight. Do not freeze.

7.3. Specific end use(s)

Hobby/Craft lacquer paint in liquid form. Not suitable for spray application due to inhalation risk.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Workplace or Occupational Exposure Limits

UK Workplace Exposure Limits (EH40)

Substance	CAS #	Short Term Exposure Limit (STEL)	Long Term Exposure Limit (TWA)	Notes
2-Propanol, 1-methoxy-	107-98-2	150 ppm 560 mg/m ³	100 ppm 375 mg/m ³	(skin)
Propyleneglycol monomethylether acetate	108-65-6	100 ppm 548 mg/m ³	50 ppm 274 mg/m ³	(skin)
Ethanol, 2-butoxy-	111-76-2	50 ppm 246 mg/m ³	25 ppm 123 mg/m ³	(skin)
Mica	12001-26-2	-	Total Inhalable 10 mg/m ³ Respirable 0.8 mg/m ³	
Diacetone alcohol	123-42-2	75 ppm 362 mg/m ³	50 ppm 241 mg/m ³	
Butyl acetate	123-86-4	200 ppm 966 mg/m ³	150 ppm 724 mg/m ³	
Carbon black	1333-86-4	7 mg/m ³	3.5 mg/m ³	
Titanium dioxide	13463-67-7	-	Total inhalable 10 mg/m ³ Respirable 4 mg/m ³	
Ethyl acetate	141-78-6	400 ppm 1468 mg/m ³	200 ppm 734 mg/m ³	
Dipropylene glycol monomethyl ether	34590-94-8	-	50 ppm 308 mg/m ³	
Isopropyl alcohol	67-63-0	500 ppm 1250 mg/m ³	400 ppm 999 mg/m ³	



1-Propanol	71-23-8	250 ppm 625 mg/m ³	200 ppm 500 mg/m ³	(skin)
Butanol	71-36-3	50 ppm 154 mg/m ³	-	
Aluminum powder	7429-90-5	-	inhalable dust 10 mg/m ³ Respirable dust 4 mg/m ³	
Barium Sulfate	7727-43-7	-	inhalable dust 10 mg/m ³ Respirable dust 4 mg/m ³	
Methyl ethyl ketone	78-93-3	300 ppm 899 mg/m ³	200 ppm 600 mg/m ³	(skin)

UK Biological Monitoring Guidance Values

Substance	CAS #	Monitoring Guidance
Ethanol, 2-butoxy-	111-76-2	240 mmol butoxyacetic acid/mol creatinine in urine
Methyl ethyl ketone	78-93-3	70 µmol Methyl ethyl ketone/L in urine post-shift

European Union Workplace Exposure Limits

Substance	CAS #	Short Term Exposure Limit (STEL)	Long Term Exposure Limit (TWA)	Notes
2-Propanol, 1-methoxy-	107-98-2	150 ppm 568 mg/m ³	100 ppm 375 mg/m ³	(skin)
Propyleneglycol monomethylether acetate	108-65-6	100 ppm 550 mg/m ³	50 ppm 275 mg/m ³	(skin)
Ethanol, 2-butoxy-	111-76-2	50 ppm 246 mg/m ³	20 ppm 98 mg/m ³	(skin)
Butyl acetate	123-86-4	150 ppm 723 mg/m ³	50 ppm 241 mg/m ³	
Ethyl acetate	141-78-6	400 ppm 1468 mg/m ³	200 ppm 734 mg/m ³	
Dipropylene glycol monomethyl ether	34590-94-8	-	50 ppm 308 mg/m ³	
Methyl ethyl ketone	78-93-3	300 ppm 900 mg/m ³	200 ppm 600 mg/m ³	

8.2. Exposure controls

Use outdoors or in a well ventilated area. If ventilation is inadequate and/or exposure exceeds the workplace exposure limits then local exhaust ventilation and respiratory protection should be used.

In case of spray mist formation then always use respiratory protection – Recommended: particulate filter, or combination particulate and organic vapour.

Clothing should be washed before reuse. If prolonged skin contact is expected, glove use may be advisable. Recommended glove material – Nitrile rubber, thickness 3mm. Instructions and information provided by the manufacturer on storage, maintenance and replacement must be followed to ensure protection and effectiveness.

This glove type may not be appropriate for all conditions and environments. It is recommended to obtain independent professional advice and complete a risk assessment specific to your application and working environment. The user must check that the final glove choice is suitable.



If there is a risk of splash or spraying of liquid then use adequate eye protection such as safety glasses with side shields.

Always handle in accordance with good safety practice and hygiene. Do not eat, drink or smoke whilst handling product. Wash hands thoroughly after use.

Prevent build up of vapours by opening doors and windows. If you become light headed, nauseous or drowsy at any time whilst using the product, immediately cease use and move to fresh air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: Each paint is an individual colour, see product label

Odour and odour threshold: Odour of solvents

Melting point/ freezing point: Not determined

Boiling point, or initial boiling point and boiling range: 77 - 190 °C Boiling range

Flammability (if solid or gas): Not determined

Lower and upper flammability or explosive limits: Explosion risk for vapour and air mixture
lower - 0.9 Vol.%
upper - 13.5 Vol.%

Flash point: - 3 °C

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

pH: Not determined

Kinematic viscosity: Not determined

Solubility: Practically insoluble

Partition coefficient: n-octanol/water: Not determined

Vapour pressure: 10 kPa at 20°C

Density and/or relative density: Not determined

Relative vapour density: Not determined

Particle characteristics: Not applicable

9.2. Other information

No additional information



SECTION 10: Stability and reactivity

10.1. Reactivity

Based on the available data, the classification criteria have not been met

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures

10.3. Possibility of hazardous reactions

There are no known hazardous reactions during the intended use.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Concentrated mineral acids and strong oxidizing agents.

10.6. Hazardous decomposition products

There are no known hazardous decomposition products in normal use

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation EC No 1272/2008

Acute toxicity

Based on the available data, the classification criteria have not been met

Irritation/ Corrosion

On the basis of calculation method, the product is classified as irritating to skin and corrosive to eyes

Product/ingredient name	Target and result	Species	Score	Exposure	Observation
3-methoxy-3-methylbutan-1-ol	EPA OPP 81-4	Rabbit		60 seconds	Eye Irritation (Reversible)
2-butoxyethanol	OECD Guideline 405	Rabbit		Single exposure	Eye Irritation (Reversible)
2-butoxyethanol	EU Method B4	Rabbit		4 hours	Mild to moderate skin irritation
Butan-1-ol	OECD Guideline 405	Rabbit		Single exposure	Severe eye damage (Irreversible)
Butan-1-ol	Unrecognised test standard (1979)	Rabbit		2 hours	Skin Irritation
Propan-1-ol	OECD Guideline 405	Rabbit		Unwashed after application	Severe eye damage (Irreversible)



Diacetone alcohol	OECD Guideline 405	Rabbit	-	Single exposure	Slight to moderate irritation. Fully reversible within 21 days
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Sensitisation

On the basis of calculation method, the classification criteria have not been met. However, in individuals that have already been sensitised to Solvent Yellow 21, this product may elicit an allergic skin reaction.

Product/ingredient name	Route of exposure	Species	Result
Solvent Yellow 21	OECD Guideline 405 Skin Sensitisation	Guinea Pig	Sensitising

Mutagenicity

Based on available data the classification criteria have not been met

Carcinogenicity

Reproductive toxicity

Based on available data the classification criteria have not been met

Specific target organ toxicity (single exposure)

On the basis of calculation method, the product may cause irritation to the respiratory system and may cause narcotic effects including drowsiness and dizziness.

Product/ingredient name	Category	Route of exposure	Target organs
Butyl acetate	Category 3	Inhalation	Narcotic effect
Propan-1-ol	Category 3	Inhalation	Narcotic effect
Butan-1-ol	Category 3	Inhalation	Narcotic effect
Butan-1-ol	Category 3	Inhalation	Respiratory Irritation
Methyl ethyl ketone	Category 3	Inhalation	Narcotic effect

Specific target organ toxicity (repeated exposure)

On the basis of calculation method, the product is suspected of causing damage to the central nervous system through prolonged or repeated exposure

Product/ingredient name	Category	Route of exposure	Target organs
Mineral Spirit	Category 1	Not specified	Central Nervous System

Aspiration hazard

Based on the available data, the classification criteria have not been met



11.2. Information on other hazards

This product does not contain constituents known to cause endocrine disruption to human health
Deliberate inhalation of solvent fumes may be harmful or fatal.

SECTION 12: Ecological information

12.1. Toxicity

Based on the available data the classification criteria have not been met

12.2. Persistence and degradability

This product has not been tested for its persistence and degradability

12.3. Bioaccumulative potential

This product has not been tested for its bioaccumulative potential

12.4. Mobility in soil

Not determined

12.5. Results of PBT and vPvB assessment

This product does not contain substances known to be Persistent, Bioaccumulative and Toxic, or Very Persistent and Very Bioaccumulative.

12.6. Endocrine disrupting properties

This product does not contain substances known to cause endocrine disruption to the environment

12.7. Other adverse effects

No other information known on other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste generation should be avoided or minimised where possible. Surplus, unused products should be sold or returned to the manufacturer, if possible, for beneficial use or recycling. Product disposal to sewer should be avoided, if possible, and only be carried out after treatment, and under relevant rules, e.g. Consent to Discharge.

Where wastes have to be disposed of, use a licenced waste contractor, and obey all national and local rules for hazardous wastes. Used paint containers should be disposed of at household waste recycling centres whether empty or part filled. Some centres will accept liquid usable paint for recycling schemes. Please check local requirements before disposal. Do not place in household waste. Paint containers (even when empty) cannot be disposed of as household waste.

Used packaging waste should be reused or recycled, if uncontaminated. Contaminated packaging should be cleaned on site, if appropriate facilities exist, including any relevant rules or permits, or offsite by a specialist provider. Contaminated packaging which cannot be safely cleaned must be treated in the same way as the product, and should only be disposed of as a last resort.



SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

Additional information

ADR/RID: Tunnel Code (D/E)
IMDG: EmS-No: F-E, S-E
IATA: ERG Code: 3L

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not intended for bulk transport

SECTION 15: Regulatory information

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

This SDS has been compiled according to REACH regulation EC 2020/878, and CLP Regulation 1272/2008, as amended.

15.2. Chemical safety assessment

A chemical safety assessment is not required for this mixture

SECTION 16: Other information

Changes made to SDS:

SDS version: version 1.1, references to Titanium Dioxide and its inhalation hazards removed from sections 1.1, 2.1, 2.2, 2.3 following annulment of its previous hazard classification as Carc. Cat 2, H351i by the European Court. It is retained in Section 3.2 and 8.1 because it holds a WEL.

Key:

ADR/RID – European Agreement concerning the International Carriage of Dangerous Goods by Road/Rail
IATA – International Air Transport Association
IMDG – International Maritime Dangerous Goods



PBT – Persistent, Bioaccumulative and Toxic Substance
 vPvB – Very Persistent and Very Bioaccumulative
 EPA – Environmental Protection Agency
 OECD – Organisation for Economic Co-Operation and Development
 LTEL – Long-term Exposure Limit
 STEL – Short-term Exposure Limit
 WEL – Workplace Exposure Limit
 LC50 – Lethal Concentration to 50% of a test population
 LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose)
 EC50 – 50% of maximal Effective Concentration
 Literature References and Sources for Data: European Chemicals Agency, Health and Safety Executive, Information provided from supply chain.

Full text of H-Statements referred to under Sections 2 and 3 of the SDS:

<i>Flammable Liquid Category 2, H225</i>	<i>Highly flammable liquid and vapour.</i>
<i>Flammable Liquid Category 3, H226</i>	<i>Flammable liquid and vapour.</i>
<i>Flammable Solid Category 2, H228</i>	<i>Flammable solid.</i>
<i>Substances and Mixtures which, in contact with water, emit flammable gases, Category 2, H261</i>	<i>In contact with water releases flammable gases</i>
<i>Acute toxicity Category 4 Oral, H302</i>	<i>Harmful if swallowed.</i>
<i>Aspiration Toxicity 1, H304</i>	<i>May be fatal if swallowed and enters airways.</i>
<i>Skin Irritant Category 2, H315</i>	<i>Causes skin irritation.</i>
<i>Skin Sensitiser Category 1B, H317</i>	<i>May cause allergic skin reaction</i>
<i>Eye Damage Category 1, H318</i>	<i>Causes serious eye damage.</i>
<i>Eye Irritant Category 2, H319</i>	<i>Causes serious eye irritation.</i>
<i>Acute Toxicity Category 4, H332</i>	<i>Harmful if inhaled.</i>
<i>Specific Target Organ Toxicity Single Exposure Category 3, H335</i>	<i>May cause respiratory irritation.</i>
<i>Specific Target Organ Toxicity Single Exposure Category 3, H336</i>	<i>May cause drowsiness or dizziness.</i>
<i>Carcinogen Category 2, H351</i>	<i>Suspected of causing cancer</i>
<i>Carcinogen Category 2, H351i</i>	<i>Suspected of causing cancer if inhaled</i>
<i>Reproductive toxicity Reproductive toxicity Category 1A or Category 1B, H360D</i>	<i>May damage the unborn child.</i>
<i>Specific Target Organ Toxicity Repeat Exposure Category 1, H372</i>	<i>Causes damage to organ through prolonged or repeated exposure</i>
<i>Aquatic Acute Toxicity Category 1, H400</i>	<i>Very toxic to aquatic life</i>
<i>Aquatic Chronic Toxicity Category 2, H411</i>	<i>Toxic to aquatic life with long lasting effects</i>
<i>EUH018</i>	<i>In use, may form flammable/explosive vapour-air mixture</i>
<i>EUH208</i>	<i>May cause allergic reaction</i>
<i>EUH211</i>	<i>Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</i>