



TAMIYA MSDS TAMIYA

LACQUER PAINT THINNER – RETARDER TYPE *GHS*

Material Safety Data Sheet according to Regulation (EU) 2015/830

Issued: 19/03/2018 Version 1.0

87194

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TAMIYA EUROPE GMBH, WERKSTRASSE 1, FURTH. D 90765, GERMANY

SECTION 1 Identification of the substance or mixture and of the enterprise

1.1 Product identifier

87194 TAMIYA Lacquer Thinner (Dry Retarder)

1.2 Relevant identified uses of the substance or mixture and uses, of which is discouraged

Paint thinner with dry delay.

1.3 Details of the supplier providing the safety data sheet

Manufacturer / Supplier

The Hobby Company Ltd, 1 Garforth Place, Knowlhill, Milton Keynes. MK5 8PG UK

Email enquiries@hobbyco.net Phone +449 (0) 1908 605 686 Fax +44 (0) 1908 605 666

Datasheet Exhibiting area info@chemieberatung.com

1.4 emergency number

Gift Emergency Call Munich +49 (0) 89 - 19240

In an emergency, members of the public should always contact their general practitioners, NHS non urgent Help lines - NHS 24 (Scotland) or NHS 111 (England and Wales) or local A&E department. If the patient has collapsed or is not breathing properly, call 999.

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Hazard Category 2 (H225)

Aspiration hazard, hazard category 1 (H304)

Specific target organ toxicity (single exposure), hazard category 3, narcotic effects (H336)

2.2 Label elements



Signal word Danger

Statements

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness and dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.
safety instructions

P102 Keep out of the reach of children.

P210 From heat, hot surfaces, sparks, open flames and others
Keep ignition sources away. Do not smoke.

P243 Take precautionary measures against electrostatic discharges.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P271 Use only outdoors or in well-ventilated areas.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P331 Do NOT induce vomiting.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
to care.

P332 + P313 If skin irritation occurs: Get medical advice / attention.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Hazardous component (s) for labeling

(C9-C11) alkanes, linear, branched, cyclic <2% aromatics

2.3 Other hazards

Not known.

SECTION 3 Composition / information on ingredients

3.1 substances

This product is a mixture.

3.2 mixtures

Solvent mixture.

Hazardous ingredients

n-butyl acetate

EC-No. 204-658-1 CAS no. 123-86-4

Share 40 - <45%

Classification Codes Flam. Liq. 3; H226 - STOT SE 3; H336 - EUH066

1-methoxypropan-2-ol

EC-No. 203-539-1 CAS no. 107-98-2

Share 25 - <30%

Classification Codes Flam. Liq. 3; H226 - STOT SE 3; H336

There are Union workplace exposure limits for this substance (see section 8).

(C9-C11) alkanes, linear, branched, cyclic <2% aromatics

EC-No. 919-857-5 CAS no. 64742-48-9

Share 25 - <30%

Classification Codes Flam. Liq. 2; H225 - Asp. Tox. 1; H304 - STOT SE 3; H336 - EUH066

3-methoxy-3-methyl-butan-1-ol

EC-No. 260-252-4 CAS no. 56539-66-3

Share 5 - <10%

Classification coding Eye Irrit. 2; H319

2-methoxy-1-methylethyl

EC-No. 203-603-9 CAS no. 108-65-6

Share 5 - <10%

Classification coding Flam. Liq. 3; H226

There are Union workplace exposure limits for this substance (see section 8).

The wording of the classification codes can be found in section 16.

SECTION 4 First aid measures

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the attending physician.

After inhalation Remove person to fresh air, consult doctor if feeling unwell.

After skin contact Remove contaminated clothing, skin affected with plenty of water and soap wash off, consult a doctor if you feel unwell.

After eye contact With spread eyelids, rinse under running water thoroughly, immediately Consult an ophthalmologist.

After swallowing, rinse the mouth and allow water to drink with the addition of medicinal charcoal. vomit, call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 Firefighting measures

5.1 Extinguishing Media

Suitable extinguishing agents

Water spray, extinguishing powder, CO₂, alcohol-resistant foam.

Unsuitable extinguishing media

Water in full jet.

5.2 Special hazards arising from the substance or mixture

Thermal decomposition to carbon monoxide and organic fission products.

5.3 Advice for firefighters

Tight-fitting fire suit with self-contained breathing apparatus. Explosion and combustion gases do not breathe.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures method

Wear protective equipment. Keep unprotected people away.

6.2 Environmental precautions

Do not discharge into the drains or waterways. When entering waters or sewers notify competent authorities.

6.3 Methods and material for containment and cleaning

Ensure adequate ventilation. Do not wash away with water or aqueous cleaning agents. With inert Absorb binders and dispose of according to local regulations, unless otherwise applicable.

6.4 Reference to other sections

For information on safe handling see section 7.

See section 8 for personal protection information.

Information on disposal, see section 13.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

Protect from heat and direct sunlight. Ensure good ventilation / exhaustion at the workplace.

Use and open container with care.

Information about fire and explosion protection

Do not spray against a flame or glowing object. Keep away from sources of ignition - do not smoke.

Take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Store cool and dry. Protect from heat and direct sunlight.

Cool endangered containers with water spray.

7.3 Specific end use (s)

No data available.

SECTION 8 Exposure controls / personal protection

8.1 Parameters to be monitored

Ingredients with limit values according to 2000/39 / EC

1-methoxypropan-2-ol

EC-No. 203-539-1 CAS no. 107-98-2

Limit value (8 h) 375 mg / m³ - 100 ppm

Limit value (15 min) 568 mg / m³ - 150 ppm

Note Risk of absorption through the skin.

2-methoxy-1-methylethyl

EC-No. 203-603-9 CAS no. 108-65-6
Limit value (8 h) 275 mg / m³ - 50 ppm
Limit value (15 min) 550 mg / m³ - 100 ppm
Note Risk of absorption through the skin.
Components with limit values according to TRGS 900 Germany

n-butyl acetate
EC-No. 204-658-1 CAS no. 123-86-4
AGW 62 ml / m³ (ppm) - 300 mg / m³
limit
Exceedance factor 2 (I)
Remarks AGS, Y

1-methoxypropan-2-ol
EC-No. 203-539-1 CAS no. 107-98-2
AGW 100 ml / m³ (ppm) - 370 mg / m³
limit
Exceedance factor 2 (I)
Remarks DFG, EU, Y

(C9-C11) alkanes, linear, branched, cyclic <2% aromatics
EC-No. 919-857-5 CAS no. 64742-48-9
AGW 25 mg / m³
limit
Exceedance factor 2 (II)
Remarks RCP, AGS

2-methoxy-1-methylethyl
EC-No. 203-603-9 CAS no. 108-65-6
AGW 50 ml / m³ (ppm) - 270 mg / m³
limit
Exceedance factor 1 (I)
Remarks DFG, EU, Y
Ingredients with limit values according to TRGS 903 Germany

1-methoxypropan-2-ol
EC-No. 203-539-1 CAS no. 107-98-2
BGW 15 mg / l
Parameter 1-Methoxypropan-2-ol
Examination material urine
Sampling time End of exposure or end of shift.

8.2 Exposure controls

Suitable technical control devices

Do not eat, drink or smoke while working, preventive skin protection. Before breaks and at the end of work

Wash your hands. Do not inhale gases / vapours / aerosols. Avoid skin and eye contact.

Personal protective equipment

Respiratory protection If the workplace limit value is exceeded in closed rooms, a

Use self-contained breathing apparatus.

Eye protection Use tightly fitting goggles with side shields.

Hand protection Use protective gloves according to EN-374-2 made of butyl rubber. Since the product is a Mixture of several substances, the resistance of glove materials is not

predictable and must therefore be checked before use. The exact Breakthrough time must be experienced and adhered to by the manufacturer of the protective gloves.

Skin protection Use anti-static safety shoes and flame retardant protective clothing.

Limitation and monitoring of environmental exposure

Prevent further leakage or spillage if safe to do so. Not in waters

An entry in the environment is to be avoided

SECTION 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state liquid Color colorless Odor petrolatum

Melting point / Melting range - Not available.

Initial boiling point / boiling range 56 - 126 ° C

Flash point - 18 ° C

pH value (at T = 20 ° C) - Not applicable.

Flammability Highly flammable.

Ignition temperature 260 ° C

Self-igniting - Not applicable.

Oxidizing properties - Not applicable.

Explosion hazard Applies to vapor-air mixtures.

Explosion limits lower 1.2% by volume (solvent)

upper 12.8% by volume (solvent)

Relative density (at T = 20 ° C) 0.86

Solubility in water (at T = 20 ° C) Solvents are partially soluble.

Vapor pressure (at T = 20 ° C) 24 kPa (solvent)

Vapor density (air = 1) - Not available.

Partition coefficient (n-octanol / water) - Not available.

Viscosity (at T = 20 ° C) - Not available.

Solvent separation test - Not applicable.

Solvent content 100%

Evaporation rate - Not available.

9.2 Other information

No data available.

SECTION 10 Stability and Reactivity

10.1 reactivity

No data available.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Concentrated mineral acids and strong oxidants.

10.6 Hazardous decomposition products

Only in case of fire, see section 5.2.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

acute toxicity

for n-butyl acetate

LD50 oral () 10,700 - 14,130 mg / kg

LD50 dermal () 17,600 mg / kg

LC50 inhalation () > 21 mg / l / 4 h

for 1-methoxy-2-propanol

LD50 oral () 11,700 mg / kg

LD50 dermal () 13,000 mg / kg

LC50 inhaled () 10,000 ppm / 5 h

Skin corrosion / irritation

No data available.

Serious eye damage / irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

carcinogenicity

No data available.

reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration

May be fatal if swallowed and enters airways.

Other Information

No data available.

SECTION 12 Ecological information

12.1 Toxicity

for n-butyl acetate

Fish toxicity (Iepomis macrochirus) LC50 100 mg / l / 96 h

Daphnia toxicity (daphnia magna) EC50 44 mg / l / 48 h

Algae toxicity (scenedesmus subspicatus) EC50 674.7 mg / l / 72 h

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

According to the information available, the criteria for classification as PBT or vPvB are not met.

12.6 Other adverse effects

Leaking product damages waters through oxygen depletion and general pollution.

SECTION 13 Disposal Considerations

13.1 Waste treatment methods

Hazardous waste according to European Waste Catalog (2008/98 / EC). If recovery is not possible, waste must be disposed of in compliance with local regulations. Not about that

Dispose of wastewater.

EU waste code

20 01 13 * solvents.

15 01 10 * Packaging containing residues of hazardous substances or hazardous substances are contaminated.

SECTION 14 Transport information

14.1 UN number

1263

14.2 UN proper shipping name

ADR / RID

PAINT RELATED MATERIAL

Tunnel restriction code (street)

(D / E)

IMDG / IATA

PAINT RELATED MATERIAL (- 18 ° C c.c.)

14.3 Transport hazard class (s)

3 (flammable liquids)

14.4 Packing group

II (medium risk substances)

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user
See sections 6 - 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
Not applicable

SECTION 15 Legislation

15.1 Safety, health and environmental regulations / legislation specific to the
Substance or mixture

EU regulations

Mentioned in Annex I of Directive 2012/18 / EU on the control of major-accident hazards
dangerous substances

Observe quantitative thresholds for substance group P5c.

Regulation (EU) No 528/2012 on the placing of biocidal products on the market

Not applicable.

Regulation (EC) No 648/2004 (Detergents Regulation)

Not applicable.

Directive 1999/13 / EC on the limitation of emissions of volatile organic compounds

Applicable.

Directive 92/85 / EEC on the introduction of measures to improve safety and of the
Health protection of pregnant women workers, women who have recently given birth and are
breastfeeding at work

Applicable.

Directive 98/24 / EC on the protection of the health and safety of workers from the hazards of
chemical agents at work

Applicable.

Directive 94/33 / EC on the protection of young people at work

Applicable.

15.2 Chemical safety assessment

The mixture was not subjected to safety assessment.

SECTION 16 Other information

Text of the classification codes according to Section 3

Flam. Liq. 2; H225 Flammable liquids, hazard category 2; Liquid and steam easily
flammable.

Flam. Liq. 3; H226 Flammable liquids, hazard category 3; Flammable liquid and vapor.

Asp. Tox. 1; H304 Aspiration hazard, hazard category 1; Can be swallowed and penetrated in
the respiratory system is deadly.

Eye Irrit. 2; H319 Serious eye damage / eye irritation, hazard category 2; Causes severe
Eye irritation.

STOT SE 3; H336 Specific Target Organ Toxicity - Single Exposure, Hazard Category 3,
numbing effects; May cause drowsiness and dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

Hints

The classification codes apply to the pure ingredients and do not necessarily reflect the classification
of the product

Mix on. The classification and labelling of the mixture are listed in Section 2.

This safety data sheet is based on applicable EU regulations and German regulations
created. It reflects the current state of knowledge and is not a contractual assurance of
Quality characteristics of the product.

Abbreviations

AGS Committee on Hazardous Substances.

AGW workplace limit.

BGW biological limit at the workplace.

DFG German Research Foundation (MAK-Kommission).

EU European Union.

LGK storage class.

PBT Persistent, bioaccumulating and toxic.

RCP Calculation method of workplace limits for hydrocarbon mixtures.

TRGS Technical Rules for Hazardous Substances.

vPvB Very persistent and very bioaccumulative.

WGK water hazard class.

Y A risk of foetal damage does not need to be complied with if AGW and BGW are complied with to be feared.