according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

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

1.1 Product identifier

Product code : 47353705

Trade name : IDEAL hardener for 2K polyurethane parguet lacquer DS

glossy (B)

Unique Formula Identifier

(UFI)

: 29SK-70M1-800R-2YXS

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

Use of the Sub- : SU19 Building and construction work

stance/Mixture Professional and consumer use of coatings, Roller application

or brushing, Non industrial spraying

PC9a Coatings and paints, thinners, paint removers

1.3 Details of the supplier of the safety data sheet

Company : KANSAI HELIOS Slovenija d.o.o.

Količevo 65 1230 Domžale Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383

productsafety@kansai-helios.si

1.4 Emergency telephone number

Call 999 (or 112) for emergency medical attention

professionals only: National Poison Information Service (NPIS) 24h national number 0844 892

0111

consumer: National Health Service (NHS) 24h national number, England & Scotland 111

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

Eye irritation, Category 2 H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H336 May cause drowsiness or dizziness.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin

dryness or cracking.

Precautionary statements

P101 If medical advice is needed, have product container or

label at hand.

P102 Keep out of reach of children.

## Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

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

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

#### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

P370 + P378 In case of fire: Use dry sand, dry chemical or

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

alcohol-resistant foam to extinguish.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Hazardous components which must be listed on the label:

n-butyl acetate

Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol homopolymer aliphatic aromatic aromatic polyisocyanate m-tolylidene diisocyanate

hexamethylene-di-isocyanate 4-methyl-m-phenylene diisocyanate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 30 - < 50
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol	53317-61-6 500-120-8	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 30 - < 50

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

ethyl acetate	141-78-6 205-500-4 607-022-00-5 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - < 10
homopolymer aliphatic aromatic	26426-91-5	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
aromatic polyisocyanate	9017-01-0	Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 1 - < 10
m-tolylidene diisocyanate	26471-62-5 247-722-4 615-006-00-4 01-2119454791-34	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412  specific concentration limit Resp. Sens. 1; H334 >= 0,1 %	>= 0,1 - < 0,25
hexamethylene-di-isocyanate	822-06-0 212-485-8 615-011-00-1 01-2119457571-37	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)  specific concentration limit Resp. Sens. 1; H334 >= 0,5 % Skin Sens. 1; H317 >= 0,5 %	< 0,1
4-methyl-m-phenylene diisocya- nate	584-84-9 209-544-5 615-006-00-4 01-2119486974-18	Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335	>= 0,025 - < 0,1

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

(Respiratory system)
Aquatic Chronic 3;
H412

specific concentration
limit
Resp. Sens. 1; H334
>= 0,1 %

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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

Risks : May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

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

Treatment : Treat symptomatically.

according to Regulation (EC) No. 1907/2006



## **IDEAL** hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version **Revision Date:** SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

ucts

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

> Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-

tions. Vapours can accumulate in low areas.

6.2 Environmental precautions

**Environmental precautions** Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible ab-

sorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Container may be opened only under exhaust ventilation

hood.

Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials

must comply with the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data

sheet.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
		STEL	200 ppm 966 mg/m3	GB EH40
		STEL	150 ppm 723 mg/m3	2019/1831/E U
	Further inforn	nation: Indicative		
		TWA	50 ppm 241 mg/m3	2019/1831/E U
	Further inforn	nation: Indicative		
ethyl acetate	141-78-6	STEL	400 ppm 1.468 mg/m3	2017/164/EU
	Further inforn	nation: Indicative		
		TWA	200 ppm 734 mg/m3	2017/164/EU
	Further inforn	nation: Indicative	<u> </u>	
		TWA	200 ppm 734 mg/m3	GB EH40
		STEL	400 ppm 1.468 mg/m3	GB EH40
m-tolylidene diiso- cyanate	26471-62-5	TWA	0,02 mg/m3 (NCO)	GB EH40
•	Further inforn	nation: Capable of ca	ausing occupational asthma.	
		STEL	0,07 mg/m3 (NCO)	GB EH40
	Further inforn	nation: Capable of ca	ausing occupational asthma.	1
hexamethylene-di- isocyanate	822-06-0	TWA	0,02 mg/m3 (NCO)	GB EH40
,	Further inforn	nation: Capable of ca	ausing occupational asthma.	1
		STEL	0,07 mg/m3 (NCO)	GB EH40
	Further inforn	nation: Capable of ca	ausing occupational asthma.	
4-methyl-m- phenylene diisocy- anate	584-84-9	TWA	0,02 mg/m3 (NCO)	GB EH40
	Further inform	nation: Capable of ca	ausing occupational asthma.	•

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

	STEL	0,07 mg/m3 (NCO)	GB EH40
Further information: Capable of causing occupational asthma.			

## **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
m-tolylidene diisocyanate	26471-62-5	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
hexamethylene-di- isocyanate	822-06-0	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
4-methyl-m-phenylene diisocyanate	584-84-9	isocyanate-derived diamine (Isocya- nates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

## Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Inhalation	Acute local effects	600 mg/m3
	Workers	Inhalation	Long-term systemic effects	48 mg/m3
	Workers	Inhalation	Long-term local ef- fects	300 mg/m3
	Consumers	Inhalation	Acute systemic effects	300 mg/m3
	Consumers	Inhalation	Acute local effects	300 mg/m3
	Consumers	Inhalation	Long-term systemic effects	12 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	35,7 mg/m3
	Consumers	Dermal	Long-term systemic effects	3,4 mg/kg bw/day
	Consumers	Dermal	Acute systemic ef- fects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Oral	Acute systemic ef- fects	2 mg/kg bw/day
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Workers	Dermal	Acute systemic ef- fects	11 mg/kg bw/day

according to Regulation (EC) No. 1907/2006



# IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

ethyl acetate	Workers	Inhalation	Acute systemic effects	1468 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1468 mg/m3
	Workers	Inhalation	Long-term systemic effects	734 mg/m3
	Workers	Inhalation	Long-term local effects	734 mg/m3
	Consumers	Inhalation	Acute systemic effects	734 mg/m3
	Consumers	Inhalation	Acute local effects	734 mg/m3
	Consumers	Inhalation	Long-term systemic effects	367 mg/m3
	Consumers	Inhalation	Long-term local effects	367 mg/m3
	Workers	Dermal	Long-term systemic effects	63 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	37 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	4,5 mg/kg bw/day
m-tolylidene diisocya- nate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m3
	Workers	Inhalation	Acute systemic effects	0,14 mg/m3
	Workers	Inhalation	Long-term local effects	0,035 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	0,14 mg/m3
hexamethylene-di- isocyanate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	0,07 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,035 mg/m3
	Workers	Inhalation	Acute local effects	0,07 mg/m3
4-methyl-m- phenylene diisocya- nate	Workers	Inhalation	Long-term systemic effects	0,035 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	0,14 mg/m3
	Workers	Inhalation	Long-term local ef- fects	0,035 mg/m3
	Workers	Inhalation	Acute local effects	0,14 mg/m3

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

		•
Substance name	Environmental Compartment	Value
n-butyl acetate	Soil	0,0903 mg/kg dry weight (d.w.)
	Marine water	0,018 mg/l
	Fresh water	0,18 mg/l

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

	Marine sediment	0,0981 mg/kg dry weight (d.w.)
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Sewage treatment plant	35,6 mg/l
	Intermittent use/release	0,36 mg/l
ethyl acetate	Soil	0,24 mg/kg dry weight (d.w.)
	Marine water	0,026 mg/l
	Fresh water	0,26 mg/l
	Marine sediment	0,125 mg/kg dry weight (d.w.)
	Fresh water sediment	1,25 mg/kg dry weight (d.w.)
	Sewage treatment plant	650 mg/l
	Intermittent use/release	1,65 mg/l
m-tolylidene diisocyanate	Soil	1 mg/kg dry weight (d.w.)
	Marine water	0,00125 mg/l
	Fresh water	0,0125 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	0,125 mg/l
hexamethylene-di-isocyanate	Soil	0,0026 mg/kg dry weight (d.w.)
	Marine water	0,00774 mg/l
	Fresh water	0,0774 mg/l
	Marine sediment	0,001344 mg/kg dry weight (d.w.)
	Fresh water sediment	0,01334 mg/kg dry weight (d.w.)
	Sewage treatment plant	8,42 mg/l
	Intermittent use/release	0,774 mg/l
4-methyl-m-phenylene diisocya- nate	Soil	1 mg/kg dry weight (d.w.)
	Marine water	0,00125 mg/l
	Fresh water	0,0125 mg/l
	Sewage treatment plant	1 mg/l
	Intermittent use/release	0,125 mg/l

## 8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Directive : Equipment should conform to EN 374

Material : Viton®
Rate of permeability : > 480 min
Protective index : Class 6

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version

1.0

Revision Date: 08.03.2021

SDS Number: MAT000473537

Date of last issue: -

Date of first issue: 08.03.2021

GB / EN

Material : PVA
Rate of permeability : > 480 min
Protective index : Class 6

Glove thickness : > 0,5 mm

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different

from one producer to the other.

The obtained break through times according to EN 374 Part III are not measured under normal operating conditions. Therefore a maximum usage time of 50% of the break through time is recommended. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Nitrile gloves are not suitable. Take note of the information given by the producer concerning permeability, degradation and break through times, and of

special work

Skin and body protection : Long sleeved clothing

Safety shoes

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

EN-143; EN-149; EN-529

Filter type : A/P2

Protective measures : Wash thoroughly after handling.

Avoid contact with skin, eyes and clothing.

Keep away from food, drink and animal feedingstuffs.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : in accordance with the product description

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point : -83,6 °C

(calculation method (principal components, lowest value))

Boiling point/boiling range : 77 °C (calculation method (principal components, lowest val-

ue))

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version 1.0

Revision Date: 08.03.2021

SDS Number: MAT000473537

Date of last issue: -

Date of first issue: 08.03.2021

GB / EN

Flammability

Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper

flammability limit

11 %(V) (calculation method (principal components, highest

value))

Lower explosion limit / Lower

flammability limit

1,2 %(V) (calculation method (principal components, highest

value))

Flash point : 12 °C

Ignition temperature

425 °C (calculation method (principal components, highest

value))

Decomposition temperature

Decomposition temperature

No decomposition if stored and applied as directed.

Hazardous decomposition products formed under fire condi-

tions.

pH : Not applicable

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Flow time : 18 - 21 s at 23 °C

Method: DIN 53211 (CF4)

Solubility(ies)

Water solubility : immiscible

Solubility in other solvents : Description: miscible with most organic solvents

Partition coefficient: n-

octanol/water

log Pow: 1,81 (calculation method (principal components,

highest value))

Density : 0,95 - 1,05 g/cm3

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Sustains combustion

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Adequate ventilation is required.

Heating can release vapours which can be ignited.

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

#### **Components:**

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 10.760 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 5.000 mg/kg

ethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): >= 5.620 mg/kg

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

Acute inhalation toxicity : LC50 (Rat): 1600 ppm

Exposure time: 8 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): >= 20.000 mg/kg

m-tolylidene diisocyanate:

Acute inhalation toxicity : Test atmosphere: dust/mist

Assessment: The component/mixture is highly toxic after short

term inhalation.

hexamethylene-di-isocyanate:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short

term inhalation.

4-methyl-m-phenylene diisocyanate:

Acute inhalation toxicity : Test atmosphere: dust/mist

Assessment: The component/mixture is highly toxic after short

term inhalation.

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

**Product:** 

Remarks : May cause skin irritation and/or dermatitis.

**Components:** 

m-tolylidene diisocyanate:

Result : irritating

4-methyl-m-phenylene diisocyanate:

Result : irritating

Serious eye damage/eye irritation

Causes serious eye irritation.

**Product:** 

Remarks : May cause irreversible eye damage.

**Components:** 

Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol:

according to Regulation (EC) No. 1907/2006



## **IDEAL** hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version **Revision Date:** 

SDS Number: 08.03.2021 MAT000473537

GB / EN

Date of last issue: -

Date of first issue: 08.03.2021

Result Eye irritation

ethyl acetate:

1.0

Result Eye irritation

homopolymer aliphatic aromatic:

Result Eye irritation

aromatic polyisocyanate:

Result Eye irritation

m-tolylidene diisocyanate:

Result Eye irritation

4-methyl-m-phenylene diisocyanate:

Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product:** 

Remarks Causes sensitisation.

**Components:** 

Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol:

Result Probability or evidence of skin sensitisation in humans

homopolymer aliphatic aromatic:

Result Probability or evidence of skin sensitisation in humans

aromatic polyisocyanate:

Result Probability or evidence of skin sensitisation in humans

m-tolylidene diisocyanate:

Result Probability of respiratory sensitisation in humans based on

animal testing

Probability or evidence of skin sensitisation in humans Result

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

4-methyl-m-phenylene diisocyanate:

Result : Probability of respiratory sensitisation in humans based on

animal testing

Result : Probability or evidence of skin sensitisation in humans

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

**Components:** 

m-tolylidene diisocyanate:

Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies

ment

4-methyl-m-phenylene diisocyanate:

Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies

ment

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

**Components:** 

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

ethyl acetate:

Assessment : May cause drowsiness or dizziness.

m-tolylidene diisocyanate:

Assessment : May cause respiratory irritation.

4-methyl-m-phenylene diisocyanate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

#### **Aspiration toxicity**

Not classified based on available information.

#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

**Further information** 

**Product:** 

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### **Components:**

n-butyl acetate:

Toxicity to algae/aquatic

plants

: NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l

EC50 (Desmodesmus subspicatus (green algae)): >= 647,7

mg/l

Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l

Exposure time: 40 h

m-tolylidene diisocyanate:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

## 4-methyl-m-phenylene diisocyanate:

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

#### 12.2 Persistence and degradability

## **Components:**

n-butyl acetate:

Biodegradability : Result: Biodegradable

Biodegradation: 83 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d

pH: 8

Hydrolyses slowly.

Photodegradation : Decomposes rapidly in contact with light.

### 12.3 Bioaccumulative potential

#### **Components:**

n-butyl acetate:

Bioaccumulation : Bioconcentration factor (BCF): 15

Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 1,81

ethyl acetate:

Partition coefficient: n-

octanol/water

log Pow: 0,6

## 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version 1.0

Revision Date: 08.03.2021

SDS Number: MAT000473537

GB / EN

Date of last issue: -

Date of first issue: 08.03.2021

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

**Product:** 

Additional ecological infor-

mation

: No data available

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

Waste Code : 08 01 11, waste paint and varnish containing organic solvents

or other hazardous substances

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN : UN 1263
ADR : UN 1263
RID : UN 1263
IMDG : UN 1263
IATA : UN 1263

#### 14.2 UN proper shipping name

ADN : PAINT
ADR : PAINT
RID : PAINT
IMDG : PAINT
IATA : Paint

#### 14.3 Transport hazard class(es)

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

ADN : 3
ADR : 3
RID : 3
IMDG : 3
IATA : 3

#### 14.4 Packing group

ADN

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

Remarks : Special Provision 640C

**ADR** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)

Remarks : Special Provision 640C

**RID** 

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

Remarks : Special Provision 640C

**IMDG** 

Packing group : II Labels : 3

EmS Code : F-E, S-E

IATA (Cargo)

Packing instruction (cargo : 364

aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

IATA (Passenger)

Packing instruction (passen: 353

ger aircraft)

Packing instruction (LQ) : Y341
Packing group : II

Labels : Flammable Liquids

#### 14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB/EN

**ADN** 

Environmentally hazardous : no

**ADR** 

Environmentally hazardous : no

**RID** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 3

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS

P<sub>5</sub>c

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

## Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction. H319 : Causes serious eye irritation.

H330 : Fatal if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H351 : Suspected of causing cancer.

H412 : Harmful to aquatic life with long lasting effects.

EUH066 : Repeated exposure may cause skin dryness or cracking.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Resp. Sens. : Respiratory sensitisation

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values

2017/164/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours 2019/1831/EU / STEL : Short term exposure limit 2019/1831/EU / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

according to Regulation (EC) No. 1907/2006



## IDEAL hardener for 2K polyurethane parquet lacquer DS glossy (B)

Version Revision Date: SDS Number: Date of last issue: -

1.0 08.03.2021 MAT000473537 Date of first issue: 08.03.2021

GB / EN

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP -Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL -International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

## Classification of the mixture: Classification procedure:

		• • • • • • • • • • • • • • • • • • •
Flam. Liq. 2	H225	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.