

Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

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

1.1 Product identifier

Trade name: 6631 Hardener for Oil-Stain

1.2 Relevant identified uses of the substance or mixture and uses

advised against Use: Hardener for coating materials or adhesives for industrial and trade applications

Uses advised against: Not suitable for use in homeworker (DIY) applications.

Application of the substance / the

mixture Hardening agent/ Curing agent

Use only in combination with Osmo Oil Stain

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG

Affhüppen Esch 12 D-48231 Warendorf

Further information obtainable

from: Product safety department

Phone: +49 (0) 251 / 692 - 188 Fax: +49 (0) 251 / 692 - 462 e-mail: helmut.starp@osmo.de

1.4 Emergency telephone

number: emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German

and English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation

(EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07

Signal word Warning

Hazard-determining components

of labelling: Hexamethylene diisocyanate, oligomersHazard statements H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

(Contd. on page 2)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain				
		(Contd. of page 1)		
	H317 Ma	ay cause an allergic skin reaction.		
	H335 Ma	ay cause respiratory irritation.		
Precautionary statements	P101	If medical advice is needed, have product container or label at hand.		
	P102	Keep out of reach of children.		
	P103	Read label before use.		
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
	P260	Do not breathe mist/vapours/spray.		
	P271	Use only outdoors or in a well-ventilated area.		
	P280	Wear protective gloves.		
	P302+P3	352 IF ON SKIN: Wash with plenty of soap and water.		
	P304+P3	341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.		
	P403+P2	233 Store in a well-ventilated place. Keep container tightly closed.		
	P501	Dispose of contents/container in accordance with national regulations.		
Additional information:	Observe	the general safety regulations when handling chemicals.		
	Always v	wear a dust mask when sanding.		
	Contains	isocyanates. May produce an allergic reaction.		
2.3 Other hazards	Warning	:		
	Wash ou	t any used cloth impregnated with this product immediately after use or store		
	in an airt	ight container (danger of self-ignition)		
Results of PBT and vPvB assess	sment			
PBT:	Not appl	icable.		
vPvB:	Not appl	icable.		

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers	50-100%
NLP: 500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
Reg.nr.: 01-2119488934-20	~	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	10-<25%
EINECS: 203-603-9	Flam. Liq. 3, H226	
Index number: 607-195-00-7		
Reg.nr.: 01-2119475791-29		

Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 3)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 2)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

In case of skin reactions, seek medical advice.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and

effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable

extinguishing agents: Water with full jet

5.2 Special hazards arising from

the substance or mixture During heating or in case of fire poisonous gases are produced.

Carbon monoxide (CO) Nitrogen oxides (NOx) Isocyanate vapors

(Traces)

Hydrogen cyanide (HCN)

Do not inhale explosion gases or combustion gases.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official

regulations.

(Contd. on page 4)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for

containment and cleaning up: Ensure adequate ventilation.

Remove mechanically; cover remainders with wet, absorbent material (eg. as sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. 1 hour transfer to waste container and do not seal (formation of CO2!). Keep damp in a safe ventilated

area for several days.

6.4 Reference to other sections See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep away from heat and direct sunlight.

Keep receptacles tightly sealed. Use only in well ventilated areas. Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

When spraying air suction is required. Noted in Chapter 8 airborne concentrations should be monitored. At workplaces where isocyanate aerosols and / or vapors may occur in higher concentrations, must by deliberate air extraction exceeding hygienic workplace limits are prevented. The air must be moved away from the personnel. The personal protective measures described in Chapter 8 must be observed. The precautions required when handling isocyanates must be observed. Avoid contact with

skin and eyes and do not breathe vapors.

Information about fire - and

explosion protection: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

Store only in the original receptacle.

(Contd. on page 5)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 4)

Information about storage in one

common storage facility: Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

Further information about

storage conditions: Store in cool, dry conditions in well sealed receptacles.

Storage class: 3

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about

design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm

Long-term value: 274 mg/m³, 50 ppm

Sk

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment: General protective and hygienic

measures: Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Do not carry product impregnated cleaning cloths in trouser pockets.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Respiratory protection: Use suitable respiratory protective device only when aerosol or mist is formed.

Not necessary if room is well-ventilated.

In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer exposure use self-contained respiratory protective device.

Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/

the preparation.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on

further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

(Contd. on page 6)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 5)

Penetration time of glove material Recommended thickness of the material: ≥ 0.5 mm

The breakthrough time must be at least 480 minutes (Permeation according to EN 374

Part 3: Level 6)

The exact break trough time has to be found out by the manufacturer of the protective

gloves and has to be observed.

Not suitable are gloves made of

the following materials: Nitrile rubber, NBR Eye protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical of General Information	K - K
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Mild
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling r	ange: 146 °C
Flash point:	>45 °C (DIN EN ISO 2719)
Flammability (solid, gas):	Not applicable.
Ignition temperature:	315 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtu are possible.
Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.8 Vol %
Vapour pressure at 20 °C:	3.4 hPa
Density at 20 °C:	0.97-1.15 g/cm³ (DIN 51757)
Relative density	Not determined.
Evaporation rate	Not determined.



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 6)

Solubility in / Miscibility with

vater: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

Solvent content:

VOC (EC) ~ 150 g/L

9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability
Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous

reactions Reacts with alcohols.

Reacts with amines.

10.4 Conditions to avoid No further relevant information available.10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition

products: No hazardous decomposition products when stored and handled correctly.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if inhaled.

LD/LC50 values relevant for classification:

28182-81-2 Hexamethylene diisocyanate, oligomers

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50 / 4h	1.5 mg/l (rat) (OECD- Prüfrichtlinie 403)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50 / 4h	35.7 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation At long or repeated contact with skin it may cause dermatitis due to the degreasing

effect of the solvent.

(Contd. on page 8)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 7)

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Experience with humans:

Special properties / effects: Over-exposure - especially when spraying isocyanate based varnishes without protective measures - there is a risk of concentration-dependent irritation of eyes, nose, throat and airways. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may already be initiated at low isocyanate concentrations, also below the TLV value. For prolonged contact with skin, tanning and irritating effects

are possible.

Additional toxicological

information: May cause an allergic skin reaction. Sensitisation May cause sensitisation by skin contact. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. **Carcinogenicity** Based on available data, the classification criteria are not met. Reproductive toxicity

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:			
28182-81-2	Hexamethylene diisocyanate, oligomers		
EC50 / 48h	> 100 mg/l (daphnia) (OECD- Prüfrichtlinie 202)		
IC50 / 72h	199 mg/l (algae) (OECD- Prüfrichtlinie 201)		
LC50 / 96h	> 100 mg/l (Brachydanio rerio) (OECD- Prüfrichtlinie 203)		

12.2 Persistence and degradability No further relevant information available. No further relevant information available. 12.3 Bioaccumulative potential 12.4 Mobility in soil No further relevant information available.

Behavio	our in sewage processing plants:	
28182-8	31-2 Hexamethylene diisocyanate, oligomers	
EC0 / 31	h >100 mg/l (daphnia)	
EC50	> 10.000 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209)	
108-65-	6 2-methoxy-1-methylethyl acetate	
EC50	>1000 mg/l (algae)	
	>1000 mg/l (activated sludge organism)	
	>100 mg/l (daphnia)	

(Contd. on page 9)



Version number 3 Printing date 23.05.2018 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 8)

>100 mg/l (fish)

Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. Not applicable. vPvB:

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach

sewage system.

Uncleaned packaging:

Disposal must be made according to official regulations. Recommendation:

SECTION 1	14: Tra	nsport in	formation
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UN1263 1263 PAINT PAINT
PAINT
3 (F1) Flammable liquids.
3
3 Flammable liquids.
3
III
No
Warning: Flammable liquids.
30
F-E, <u>S-E</u>



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 9)

Stowage Category	A			
14.7 Transport in bulk according to Annex II of Marpol				
and the IBC Code	Not applicable.			
Transport/Additional information:				
ADR				
Limited quantities (LQ)	5L			
Excepted quantities (EQ)	Code: E1			
	Maximum net quantity per inner packaging: 30 ml			
	Maximum net quantity per outer packaging: 1000 ml			
Transport category	3			
Tunnel restriction code	D/E			
IMDG				
Limited quantities (LQ)	5L			
Excepted quantities (EQ)	Code: E1			
	Maximum net quantity per inner packaging: 30 ml			
	Maximum net quantity per outer packaging: 1000 ml			
UN "Model Regulation":	UN 1263 PAINT, 3, III			

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances -

ANNEX I None of the ingredients is listed.

Qualifying quantity (tonnes) for the application of lower-tier

requirements 5.000 t

Qualifying quantity (tonnes) for the application of upper-tier

requirements 50.000 t

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

(Contd. on page 11)



Printing date 23.05.2018 Version number 3 Revision: 31.05.2017

Trade name: 6631 Hardener for Oil-Stain

(Contd. of page 10)

Department issuing SDS: product safety department

Contact: Hr. Dr. Starp

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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