Precautionary statements



### Safety Data Sheet

according to HPR, Schedule 1

	according to HPR, Schedule 1	
ting date 02/14/2023	Version 3.0	Reviewed on 08/17/20
Identification		
Product identifier		
Trade name:	2K Wood Oil	
Article number:	6100 Clear; 6111 White; 6112 Silver Gre 6116 Cherry; 6119 Natural; 6141 Havanr 6190 Black	
Application of the substan	се	
/ the mixture	Paint	
Here advised analysed	Coating compound/ Surface coating/ pair	
Uses advised against	Do not use without the associated harder	ner.
Details of the supplier of the	he safety data sheet	
Manufacturer/Supplier:		
Supplier	Osmo Wood and Colour Canada Ltd. 8812 51 Ave NW Edmonton AB T6E 5E8 Canada Tel:+1-844-OSMOCAN E-mail: info@osmo.ca	
Manufacturer	Osmo Holz und Color GmbH & Co. KG	
	Affhüppen Esch 12	
	D-48231 Warendorf	
Information department:	Product safety department	
	Tel.: +49 (0) 251 / 692 - 188	
	Fax: +49 (0) 251 / 692 - 462 e-mail: helmut.starp@osmo.de	
Emergency telephone	e-mail. heimut.stalp@bsinb.de	
number:	24h-Emergency Phone Number:	
	For Chemical Emergency, Spill; Leak; Fi	re Exposure or Accident Call Day or
	Night within USA and Canada 1-800-424	-9300
	Outside USA and Canada 001-703-527-3	3887 (CCN 16475)
Hazard identification		
Classification of the		
substance or mixture	The product is not classified, according to (GHS).	o the Globally Harmonized System
Additional information:	For the wording of the listed hazard phras	ses refer to section 16.
Label elements		
	Void	
παζαία ρισιογιαπιδ	VOID	
Hazard pictograms Signal word	Void	

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

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rade name: 2K Wood Oil		
		(Contd. of page 1
	P262 Do not get in eyes, on skin, or on clo	othing.
	P271 Use only outdoors or in a well-ventila	ated area.
Classification system:		
NFPA ratings (scale 0 - 4)	Health = 0	
	Fire = 1	
	Reactivity = 0	
HMIS-ratings (scale 0 - 4)	Health = 0	
	Fire = 1	
	Reactivity = 0	
Other hazards	CAUTION: Rags, steel wool or waste soak	
	spontaneously catch fire if improperly disca	
	rags, steel wool or waste in a sealed water	filled metal container to prevent
	this.	
	Always wear a dust mask when sanding.	
	Observe the general safety regulations wh	en handling chemicals.
3 Composition/Informatio	on on inaredients	
-		
Chemical characterization:		
Description:	Mixture of the substances listed below with	n nonhazardous additions.
Dangerous components:		
64742-48-9 aliphatic hydroca	rbons, C10-C13	1–5% w/w
🚯 Aspiration Ha	zard - Category 1, H304; Flammable Liquids	- Category 4, H227
· · · · · · · · · · · · · · · · · · ·		
4 First-aid measures		
4 First-ald measures		
Description of first aid meas	sures	
General information:	No special measures required.	
General information.	No special measures required.	

General information:	No special measures required.	
After inhalation:	Supply fresh air; consult doctor in case of complaints.	
After skin contact:	Immediately rinse with water.	
	Immediately wash with water and soap and rinse thoroughly.	
	If skin irritation or rash occurs: Get medical advice/attention.	
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
After swallowing:	If symptoms persist consult doctor.	
Information for doctor:		
Most important symptoms and effects, both acute and		
delayed	No further relevant information available.	
	(Contd. on page 3	)

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	Version 5.0	
ade name: 2K Wood Oil		
		(Contd. of page 2
Indication of any immediate		
medical attention and special		
treatment needed	No further relevant information available.	
Fire-fighting measures		
Extinguishing media		
Suitable extinguishing		
agents:	Use fire fighting measures that suit the enviro	onment.
For safety reasons unsuitable		
extinguishing agents:	Water with full jet	
Special hazards arising from		
the substance or mixture	No further relevant information available.	
Advice for firefighters		
Protective equipment:	No special measures required.	
Accidental release meas	ures	
Personal precautions,		
protective equipment and		
emergency procedures	Wear protective clothing.	
Environmental precautions:	Inform respective authorities in case of seep	age into water course or sewage
	system.	0
	Do not allow to enter sewers/ surface or grou	und water.
Methods and material for		
containment and cleaning up	Absorb with liquid-binding material (sand, dia binders).	atomite, acid binders, universal
	Dispose of the collected material according t	to regulations.
	Dispose of the collected material according to Dispose contaminated material as waste acc	-
	Dispose contaminated material as waste acc Ensure adequate ventilation.	cording to item 13.
Reference to other sections	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin	cording to item 13. ng.
Reference to other sections	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro-	cording to item 13. ng.
Reference to other sections	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin	cording to item 13. ng.
	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro-	cording to item 13. ng.
7 Handling and storage	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro-	cording to item 13. ng.
7 Handling and storage Handling:	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro-	cording to item 13. ng. rotection equipment.
7 Handling and storage Handling:	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro See Section 13 for disposal information.	cording to item 13. ng. rotection equipment.
7 Handling and storage Handling:	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro- See Section 13 for disposal information.	cording to item 13. ng. rotection equipment.
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7 Handling and storage Handling: Precautions for safe handling	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro See Section 13 for disposal information.	cording to item 13. ng. otection equipment.
7 Handling and storage Handling: Precautions for safe handling General protective and	Dispose contaminated material as waste acc Ensure adequate ventilation. See Section 7 for information on safe handlin See Section 8 for information on personal pro- See Section 13 for disposal information.	cording to item 13. ng. otection equipment.

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Trade name:	2K	Wood	Oil
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	(Contd. of page 3)
	Do not eat, drink, smoke or sniff while working.
	Do not carry product impregnated cleaning cloths in trouser pockets.
nformation about protectior	1
gainst explosions and fires	: Keep respiratory protective device available.
onditions for safe storage,	including any incompatibilities
torage:	
equirements to be met by	
torerooms and receptacles.	: No special requirements.
nformation about storage in	
ne common storage facility	r: Not required.
urther information about	
torage conditions:	Keep receptacle tightly sealed.
-	Store in cool, dry conditions in well sealed receptacles.
torage class:	10
pecific end use(s)	No further relevant information available.

#### **Control parameters** Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: The lists that were valid during the creation were used as basis. **Exposure controls** Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing. Do not inhale gases / fumes / aerosols. The usual precautionary measures for handling chemicals should be followed. Do not eat, drink, smoke or sniff while working. See Section 7 for information on safe handling. Breathing equipment: 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 respiratory protective device that is independent of circulating air. Use a properly fitted, air-purifying or air-fed repirator complying with an approved standard if a risk assessment indicates this is necessary. Protection of hands: To avoid skin problems reduce the wearing of gloves to the required minimum. (Contd. on page 5)



according to HPR, Schedule 1

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Flash point:

Auto igniting:

Lower:

Danger of explosion:

**Explosion limits:** 

Flammability (solid, gaseous):

Decomposition temperature:

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<sub>rade name:</sub> 2K Wood Oil		
		(Contd. of page
	Protective gloves	
	The glove material has to be impermeab	le and resistant to the product/ the
	substance/ the preparation.	
	Selection of the glove material on conside	eration of the penetration times, rates
	of diffusion and the degradation	
Material of gloves	The selection of the suitable gloves does	
	also on further marks of quality and varie	
	As the product is a preparation of severa	
	glove material can not be calculated in ac	dvance and has therefore to be
	checked prior to the application.	
Penetration time of glove		
material	The exact break trough time has to be fo	und out by the manufacturer of the
	protective gloves and has to be observed	1.
As protection from splashes		
gloves made of the following	<b>j</b>	
materials are suitable:	Nitrile rubber, NBR	
Eye protection:	Tightly sealed goggles	
Body protection:	Protective work clothing	
9 Physical and chemical p	properties	
Information on basic physica	al and chemical properties	
General Information		
Appearance:		
Form:	Fluid	
Color:	According to product specification	n
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Mixture is non-polar/aprotic.	
-		
Change in condition		
Melting point/Melting range Boiling point/Boiling range		

> 100 °C (DIN EN ISO 2719)

Product is not selfigniting.

Product does not present an explosion hazard.

Not applicable.

Not determined.

Not determined.

(Contd. on page 6)



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# Trade name: 2K Wood Oil

		(Contd. of page
Upper:	Not determined.	
Vapor pressure at 100 °C:	≤1 hPa	
Density at 20 °C:	0.94-1.20 g/cm³ (DIN 51757)	
Relative density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic at 20 °C:	40-140 s (DIN EN ISO 2431/4mm)	
	>21 mm²/s (40°C) (calculated)	
Other information	No further relevant information available.	

#### 10 Stability and reactivity

Reactivity Chemical stability Thermal decomposition /	No further relevant information available.
conditions to be avoided: Possibility of hazardous	No decomposition if used and stored according to specifications.
reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	No hazardous decomposition products when stored and handled correctly.

#### 11 Toxicological information

 Information on toxicological effects

 Acute toxicity:

 LD/LC50 values that are relevant for classification:

 64742-48-9 aliphatic hydrocarbons, C10-C13

 Oral
 LD50
 >5,000 mg/kg (rat)

 Dermal
 LD50
 >5,000 mg/kg (rat)

 Inhalative
 LC50 / 4h
 >5 mg/l (rat)

 Primary irritant effect:

 on the skin:
 No irritant effect.

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

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rade name: 2K Wood Oi	il	
		(Contd. of page 6)
on the eye:	No irritating effect.	
	Based on available data, the classification	n criteria are not met.
Sensitization:	No sensitizing effects known.	
Additional toxicological	The second state of the state o	
information:	The product is not subject to classificatior calculation methods for preparations:	according to internally approved
Carcinogenic categories		
IARC (International Agene	cy for Research on Cancer)	
None of the ingredients is li	sted.	
NTP (National Toxicology	Program)	
None of the ingredients is li	sted.	
	-	
2 Ecological informatio	n	
Toxicity		
Aquatic toxicity:		
64742-48-9 aliphatic hydro		
EC50 / 48h >1,000 mg/l (D	aphnia magna)	
IC50 / 72h >1,000 mg/l (al	gae)	
LC50 / 96h >1,000 mg/l (fis	sh)	
-	bility No further relevant information available.	
Behavior in environmenta	-	
Bioaccumulative potentia		
Mobility in soil	No further relevant information available.	
Additional ecological info General notes:		azardaua for watar
General notes.	Water hazard class 2 (Self-assesment): h Danger to drinking water if even small qua	
Results of PBT and vPvB		and the ground.
PBT:	Not applicable.	
vPvB:	Not applicable.	
Other adverse effects	No further relevant information available.	
3 Disposal consideration	ons	
Waste treatment methods		
Recommendation:	Must not be disposed of together with hou	usehold garbage. Do not allow
	product to reach sewage system.	ist as and the set
	Disposal must be made according to offic	-
		(Contd. on page 8)

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Trade name: 2K Wood O	I	
		(Contd. of page 7
Uncleaned packagings: Recommendation:	Disposal must be made according to offi	cial regulations.
14 Transport information	1	
UN-Number DOT/TDG, ADR, IMDG, IA	TA Not applicable	
UN proper shipping name DOT/TDG, ADR, IMDG, IA		
Transport hazard class(es	s)	
DOT, ADR, ADN, IMDG, IA Class	TA Not applicable	
Packing group DOT/TDG, ADR, IMDG, IA	TA Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for u	ser Not applicable.	
Transport in bulk accordi MARPOL73/78 and the IB	-	
UN "Model Regulation":	Not applicable	
15 Regulatory information	on	
Safety, health and environmental regulation legislation specific for the substance or mixture Sara		
Section 355 (extremely ha	zardous substances):	
None of the ingredients is li		
Section 313 (Specific toxi		
None of the ingredients is li	sted.	
TSCA (Toxic Substances		
All components have the va		
		(Contd. on page

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Canadian substance listings:         Canadian Domestic Substances List (DSL)         All ingredients are listed.         Canadian Non-Domestic Substances List (NDSL)         None of the ingredients is listed.         Canadian Ingredient Disclosure list (limit 0.1%)         None of the ingredients is listed.         Canadian Ingredient Disclosure list (limit 1%)         8001-26-1         Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Hazard statements       Void		
All ingredients are listed.  Canadian Non-Domestic Substances List (NDSL) None of the ingredients is listed.  Canadian Ingredient Disclosure list (limit 0.1%) None of the ingredient Disclosure list (limit 1%) 8001-26-1 [Linseed oil GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Hazard statements Void Hazard statements Void Precautionary statements Void Precautionary statements Void Hazard statements Void Precautionary statements Void Hazard statements Void Precautionary statements Void Hazard statements Void Hazard statements Void Precautionary statements Void Hazard statements Void Hazard statements Void Hazard statements Void Hazard statements Void Precautionary statements Void Precautionary statements Void Hazard statements Void Precautionary statements Void Hazard statements Void Precautionary statements Void Hazard statements Void Hazard statements Void Hazard statements Void Precautionary statements Void Precautionary statements Void Precautionary statements Void Hazard statements Void Precautionary statements Void Hazard statements Void This information Hazard statements Void Hazard statements Void Hazard statement Void Hazard statement Void Hazard statement Void Void Hazard statement Void Void Hazard statement Void Void Hazard statement Void Void Void Void Void Void Void Void	Canadian substance listings:	(Contd. of page
Analian Non-Domestic Substances List (NDSL)           None of the ingredient Disclosure list (limit 0.1%)           None of the ingredient Disclosure list (limit 1%)           8001-26-1           Linseed oil           GHS label elements           Void           Signal word           Void           Signal word           Void           Signal word           Void           Precautionary statements           Void           P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.           P262 Do not get in eyes, on skin, or on clothing.           P271 Use only outdoors or in a well-ventilated area.           Chemical safety assessment: A Chemical Safety Assessment has not been carried out.           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         H227 Combustible liquid.           H304 May be fatal if swallowed and enters airways.           Department issuing SDS:         product safety department           Contact:         Hr. Dr. Starp           Date of the latest revision of the safety data sheet         02/14/2023           Abb	Canadian Domestic Substanc	es List (DSL)
None of the ingredients is listed.         Canadian Ingredient Disclosure list (limit 0.1%)         None of the ingredients is listed.         Canadian Ingredient Disclosure list (limit 1%)         8001-26-1       Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters ainways.       Department issuing SDS: product safety department         Fite safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods DOT: US Department it remajordation         ELINCS: European Liter of Motified Chemical Substances       CAS: Chemical Abstracts Service (division of the American Chemical Substances ELINCS: European Internical Substances <td>All ingredients are listed.</td> <td></td>	All ingredients are listed.	
Canadian Ingredient Disclosure list (limit 0.1%)         None of the ingredient Disclosure list (limit 1%)         8001-26-1         Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand         P102 Keep out of reach of children.       P262 Do not get in eyes, on skin, or on clothing.         P271 Use only outdoors or in a well-ventilated area.       Chemical safety assessment:         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety department       Hr. Dr. Starp         Date of the latest revision of the safey data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Gods         DOT: US Department of Transportation       ELINCS: European Inventory of Existing Commercial Chemical Substances         CAS: Chemical Abstracts Seri	Canadian Non-Domestic Subs	stances List (NDSL)
None of the ingredients is listed.         Canadian Ingredient Disclosure list (limit 1%)         8001-26-1         Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Signal word       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand         P102 Keep out of reach of children.       P262 Do not get in eyes, on skin, or on clothing.         P271 Use only outdoors or in a well-ventilated area.       Chemical safety assessment: A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety department       Hr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMD6: International Maritime Code for Dangerous Goods DUT is Department of Transportation         LINCS: European List of Notified Chemical Substances       ELINCS: European List of Notified Chemical Substances         CAS: Chemical Abst	None of the ingredients is listed.	
Canadian Ingredient Disclosure list (limit 1%)         8001-26-1       Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Signal word       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods         DOI: IS European Inventory of Existing Commercial Chemical Substances         ELINCS: European Inventory of Existing Commercial Chemical Substances         ELINCS: European Inventory of Existing Commercial Chemical Society)         NFF: National Fire Protection Association (USA)         LINGS: European Invent	Canadian Ingredient Disclosu	re list (limit 0.1%)
8001-26-1       Linseed oil         GHS label elements       Void         Hazard pictograms       Void         Signal word       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDC: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association [LINCS: European livet of Notified Chemical Substances ELINCS: European livet of Notified Chemical Substances (CAS: Chemical Abstracts Service (division of the American Chemical Society)         MHS: Hazardous Materials Identification System (USA)       LC50: Lethal concentration, 50 percent         LOS: Lethal dose, 50 percent       DS0: Lethal dose, 50 percent         PBT: Persistent, Bioaccumulative and Toxic       PPT: Persistent and very Bioac	None of the ingredients is listed.	
GHS label elements       Void         Hazard pictograms       Void         Signal word       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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         H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.         Department issuing SDS:         product safety department         Contact:         Hr. Dr. Starp         Date of the latest revision of         EINCE: European liventory of Existing Commercial Chemical Substances         ELINCE: European Inventory of Existing Commercial Chemical Substances         ELINCE: European Inventory of Sisting Commercial Chemical Substances         ELINCE: European Inventory of Si	Canadian Ingredient Disclosu	re list (limit 1%)
Hazard pictograms       Void         Signal word       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety department       Hr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods         DOT: US Department of Transportation       IAS: Chemical Abstract Societion         EINCS: European Inventory of Existing Commercial Chemical Substances       ELINCS: European Inventory of Existing Commercial Chemical Society)         NFPA: National Fire Protection Association (USA)       HMIS: Hazardous Materials identification System (USA)         LINGS: Lethal dose, 50 percent       DSF: Use presistent	8001-26-1 Linseed oil	
Signal word       Void         Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children. P262 Do not get in eyes, on skin, or on clothing. P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid. H304 May be fatal if swallowed and enters airways.         Department issuing SDS:       product safety department         Contact:       Hr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMOG: International Maritime Code for Dangerous Goods         DOT: US Department of Transportation       INECS: European Inventory of Existing Commercial Chemical Substances         CAS: Chemical Abstract Service (division of the American Chemical Society)       NFPA: National Fire Protection Association (USA)         HMIS: Hazardous Materials Identification System (USA)       LCS0: Lethal dose, 50 percent         LDS0: Lethal dose, 50 percent       PBT: Persistent and very Bioaccumulative         Sources       ESIS : European chemical Substa	GHS label elements	Void
Hazard statements       Void         Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         Other information       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         Other information       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         P271 Use only outdoors or in a well-ventilated area.       Chemical Safety Assessment has not been carried out.         Other information       Tis information subset 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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Department issuing SDS:         product safety department       F. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Air Transport Association         EINCS: Europea	Hazard pictograms	Void
Precautionary statements       P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.       P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Pepartment issuing SDS:         product safety department       Hr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)         LOS0: Lethal cose, 50 percent       PBT: Persistent, Bioaccumulative         Sources       ESIS : European chemical Substances Information System	Signal word	Void
P102 Keep out of reach of children.         P262 Do not get in eyes, on skin, or on clothing.         P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         Other information       A Chemical Safety Assessment has not been carried out.         Other information       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       H227 Combustible liquid.         H304 May be fatal if swallowed and enters airways.       Pepartment issuing SDS:         product safety department       Fr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of System (USA) LC50: Lethal concentration, 50 percent         PBT: Persistent, Bioaccumulative and Toxic vPVB: very Persistent and very Bioaccumulative         Sources       ESIS : European chemical Substances Information System	Hazard statements	Void
P262 Do not get in eyes, on skin, or on clothing. P271 Use only outdoors or in a well-ventilated area.Chemical safety assessment:A Chemical Safety Assessment has not been carried out.Other informationA Chemical Safety Assessment has not been carried out.Other 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 phrasesH227 Combustible liquid. H304 May be fatal if swallowed and enters airways.Department issuing SDS: Date of the latest revision of the safety data sheetO2/14/2023MDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) 	Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
P271 Use only outdoors or in a well-ventilated area.         Chemical safety assessment:       A Chemical Safety Assessment has not been carried out.         Other information       Image: Comparison of the second of the safety assessment has not been carried out.         Other 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       H227 Combustible liquid. H304 May be fatal if swallowed and enters airways.         Department issuing SDS:       product safety department         Contact:       Hr. Dr. Starp         Date of the latest revision of the safety data sheet       02/14/2023         Abbreviations and acronyms:       IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association         ELINCS: European List of Notified Chemical Substances       ELINCS: European List of Notified Chemical Substances         ELINCS: European List of Notified Chemical Substances       CAS: Chemical Abstracts Service (division of the American Chemical Society)         NFPA: National Fire Protection Association (USA)       HMIS: Hazardous Materials Identification System (USA)         LCS0: Lethal concentration, 50 percent       DBT: Persistent, Bioaccumulative and Toxic         VP:N: very Persistent and very Bioaccumulative       VP:N: very Persistent and very Bioaccumulative         Sources       ESIS : European chemical S		
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Safety data sheets from raw material suppliers	This information is based on our specific product features and sh <i>Relevant phrases</i> Department issuing SDS: Contact: Date of the latest revision of the safety data sheet Abbreviations and acronyms:	<ul> <li>all not establish a legally valid contractual relationship.</li> <li>H227 Combustible liquid.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>product safety department</li> <li>Hr. Dr. Starp</li> <li>02/14/2023</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li> <li>IATA: International Air Transport Association</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>NFPA: National Fire Protection Association (USA)</li> <li>HMIS: Hazardous Materials Identification System (USA)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>ESIS: European chemical Substances Information System</li> </ul>

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### Safety Data Sheet

according to HPR, Schedule 1

Printing date 02/14/2023

Version 3.0

Reviewed on 08/17/2022

(Contd. of page 9)

### Trade name: 2K Wood Oil

\* Data compared to the previous version altered.

Additions, deletions, revisions

CA •



according to HPR, Schedule 1

Printing date 02/14/2023

Version 3.1

Reviewed on 02/14/2023

Product identifier	
Trade name:	Hardener for 2K Wood Oil (6633)
Article number:	6633
CAS Number:	28182-81-2
NLP Number:	500-060-2
Application of the substand	ce
/ the mixture	Hardening agent/ Curing agent
Details of the supplier of th Manufacturer/Supplier:	e safety data sheet
Supplier	Osmo Wood and Colour Canada Ltd. 8812 51 Ave NW Edmonton AB T6E 5E8 Canada Tel:+1-844-OSMOCAN E-mail: info@osmo.ca
Manufacturer	Osmo Holz und Color GmbH & Co. KG Affhüppen Esch 12 D-48231 Warendorf
Information department:	Product safety department
	Tel.: +49 (0) 251 / 692 - 188
	Fax: +49 (0) 251 / 692 - 462
	e-mail: helmut.starp@osmo.de
Emergency telephone	
number:	24h-Emergency Phone Number:
	For Chemical Emergency, Spill; Leak; Fire Exposure or Accident Call Day or
	Night within USA and Canada 1-800-424-9300
	Outside USA and Canada 001-703-527-3887 (CCN 16475)

Classification of the substa	nce or mixture	
Acute Toxicity (Inhalation) - C	ategory 4	H332 Harmful if inhaled.
Skin Sensitizer - Category 1		H317 May cause an allergic skin reaction.
Specific Target Organ Toxicit Category 3	y - Single Exposure -	H335 May cause respiratory irritation.
Additional information:	For the wording of th	e listed hazard phrases refer to section 16.
Label elements Hazard pictograms		



(Contd. on page 2)



according to HPR, Schedule 1

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Version 3.1

Reviewed on 02/14/2023

	(Contd. of page
Signal word	Warning
Hazard-determining	
components of labeling:	Hexamethylene diisocyanate, oligomers
Hazard statements	H332 Harmful if inhaled.
	H317 May cause an allergic skin reaction.
	H335 May cause respiratory irritation.
Precautionary statements	P260 Do not breathe vapours.
	P262 Do not get in eyes, on skin, or on clothing.
	P271 Use only outdoors or in a well-ventilated area. P301 IF SWALLOWED:
	P301 IF SWALLOWED: P331 Do NOT induce vomiting.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable
	for breathing.
	P316 Get emergency medical help immediately. Call a Poison Centre
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P405 Store locked up.
	P501 Dispose of contents/container in accordance with national
	regulations.
Classification system:	
NFPA ratings (scale 0 - 4)	Health = 0 Fire = 1
	Reactivity = $0$
HMIS-ratings (scale 0 - 4)	Health $= 1$
	Fire = 1
	Reactivity = 0
Other hazards	Always wear a dust mask when sanding.
	Observe the general safety regulations when handling chemicals.
Composition/Information	on on ingredients
Chamical characterization.	
Chemical characterization: CAS No. Description	28182-81-2 Hexamethylene diisocyanate, oligomers
Identification number(s)	
NLP Number:	500-060-2
Impurities and stabilising a	
822-06-0 hexamethylene-di-is	
	Dermal) – Category 3, H311; Acute Toxicity (Inhalation) - Category 3,
	bry Sensitizer - Category 1, H334; () Acute Toxicity (Oral) - Category 3,
	ion - Category 2, H315; Eye Irritation - Category 2A, H319; Skin
	ry 1, H317; Specific Target Organ Toxicity - Single Exposure -
Sensitizer - Catego	
Category 3, H335	
Category 3, H335	ion limits: Respiratory Sensitizer - Category 1; H334: C ≥ 0.5 % Skin Sensitizer - Category 1; H317: C ≥ 0.5 %

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Version 3.1

Reviewed on 02/14/2023

	<sub>de name:</sub> Hardener for 2K Wood Oil (6633)	
Description:	(Contd. of pag	
First-aid measures		
Description of first aid measu	ires	
General information:	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medi- observation for at least 48 hours after the accident.	
After inhalation:	Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. 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. If skin irritation continues, consult a doctor. If skin irritation or rash occurs: Get medical advice/attention.	
After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.	
After swallowing:	Rinse mouth. Seek medical treatment.	
Information for doctor: Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and special	No further relevant information available.	
treatment needed	No further relevant information available.	
Fire-fighting measures		
Extinguishing media		
Suitable extinguishing	CO2 extinguishing pourder or water enroy. Fight larger first with water enro	
agents:		
agents: For safety reasons unsuitable	Use fire fighting measures that suit the environment.	
agents: For safety reasons unsuitable extinguishing agents:	Use fire fighting measures that suit the environment.	
agents: For safety reasons unsuitable	Use fire fighting measures that suit the environment.	
agents: For safety reasons unsuitable extinguishing agents: Special hazards arising from	Water with full jet Isocyanate vapors Nitrogen oxides (NOx)	
agents: For safety reasons unsuitable extinguishing agents: Special hazards arising from the substance or mixture	Use fire fighting measures that suit the environment. Water with full jet Isocyanate vapors Nitrogen oxides (NOx) (Traces)	

(Contd. on page 4)



according to HPR, Schedule 1

Printing date 02/14/2023

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Reviewed on 02/14/2023

#### Trade name: Hardener for 2K Wood Oil (6633) (Contd. of page 3) Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system. Cool endangered receptacles with water spray. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective clothing. Environmental precautions: Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Remove mechanically; cover residues with moist, liquid-binding material (e.g. sawdust, calcium silicate hydrate-based chemical binder, sand). After about 1 hour, take up in waste container, do not close (CO2 evolution!). Keep moist and leave in a safe place outdoors for several days. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Dispose of the collected material according to regulations. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. 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. 7 Handling and storage

#### Handling:

Precautions for safe handling Spraying requires the extraction of air

Frecautions for sale nation	ng spraying requires the extraction of all.	
	The air limit values mentioned in Chapter 8 must be observed. I where aerosols and/or vapours of isocyanates may occur in high	•
	concentrations, targeted air pollution control must be used to av	oid exceeding
	the occupational hygiene limit value. Air movement must be kep people.	ot away from
	The personal protection measures described in Chapter 8 must	be followed.
	When handling isocyanates, the required protective measures n	nust be
	observed. Avoid contact with skin and eyes and inhalation of va	pours.
	Ensure good ventilation/exhaustion at the workplace.	'
	Open and handle receptacle with care.	
	Prevent formation of aerosols.	
	Avoid contact with skin and eyes.	
General protective and		
hygienic measures:	Be sure to clean skin thoroughly after work and before breaks. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.	
		(Contd. on page 5



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#### Trade name: Hardener for 2K Wood Oil (6633) (Contd. of page 4) Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Do not carry product impregnated cleaning cloths in trouser pockets. Information about protection against explosions and fires: Fumes can combine with air to form an explosive mixture. Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground. Store only in the original receptacle. Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: Store receptacle in a well ventilated area. Store in dry conditions. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles. TRGS 510 storage class: 12 non-flammable liquids that can not be assigned Storage class: to any other storage class. 10 Specific end use(s) No further relevant information available.

#### 8 Exposure controls/ Personal protection

#### **Control parameters**

Components with limit values that require monitoring at the workplace: 822-06-0 hexamethylene-di-isocyanate (<0.1%)	
EV (Canada)	TWA: 0.005 ppm Ceiling: 0.02 ppm
TWA (Canada)	TWA: 0.005 ppm Ceiling: 0.01 ppm S(R)
REL (USA)	TWA: 0.035 mg/m³, 0.005 ppm Ceiling: 0.14* mg/m³, 0.02* ppm *10-min
TLV (USA)	TWA: 0.005 ppm BEI
Additional info	<i>rmation:</i> The lists that were valid during the creation were used as basis. (Contd. on page 6

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### Trade name: Hardener for 2K Wood Oil (6633)

	(Contd. of page
Exposure controls	
Personal protective equipme	ent:
General protective and	
hygienic measures:	Wash hands before breaks and at the end of work.
	Keep away from foodstuffs, beverages and feed.
	Avoid contact with the eyes and skin.
	Immediately remove all soiled and contaminated clothing.
	The usual precautionary measures for handling chemicals should be followe
	Store protective clothing separately.
	Do not eat, drink, smoke or sniff while working.
	See Section 7 for information on safe handling.
Breathing equipment:	In the case of respiratory and skin hypersensitivity (asthma, chronic bronchit
_ caag cquipinona	chronic skin diseases), handling of the product is not recommended.
	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 respiratory protective device that is
	independent of circulating air.
	Use a properly fitted, air-purifying or air-fed repirator complying with an
Protection of hands:	approved standard if a risk assessment indicates this is necessary.
Protection of nands.	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, rate
Matarial of slaves	of diffusion and the degradation
Material of gloves	Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	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 manufacture
Penetration time of glove	
material	The exact break trough time has to be found out by the manufacturer of the
	protective gloves and has to be observed.
For the permanent contact	
gloves made of the following	1
materials are suitable:	chemical resistant gloves (EN 374)
	Butyl rubber, BR
Not suitable are gloves made	9
of the following materials:	Nitrile rubber, NBR
Eye protection:	Face protection
	, Schutzbrille mit Seitenschutz (Gestellbrille) (z.B. EN 166)
Body protection:	Use protective suit.
	Protective work clothing
	(Contd. on page



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## Trade name: Hardener for 2K Wood Oil (6633)

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Information on basic physical and	chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Colorless
Odor:	Nearly odorless
Odor threshold:	Not determined.
pH-value:	Not applicable
	Mixture is non-polar/aprotic.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable
Flash point:	~158 °C (DIN 53213, 28182-81-2 Hexamethylene diisocyanate,
·	oligomers)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	~445 °C (DIN 51794, 28182-81-2 Hexamethylene diisocyanate,
	oligomers)
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C:	<0.00003 hPa (EG A4, 28182-81-2 Hexamethylene diisocyanate,
	oligomers)
Density at 20 °C:	~1.17 g/cm³ (DIN 53217)
Relative density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wa	<i>ter):</i> Not determined.
Viscosity:	
Dynamic at 20 °C:	~1,200 mPas (DIN EN ISO 3219/A.3)
Kinematic:	Not determined.

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	(Contd. of pa
Other information	No further relevant information available.
) Stability and reactivity	/
Reactivity	No further relevant information available.
Chemical stability	
Thermal decomposition /	
conditions to be avoided: Possibility of hazardous	No decomposition if used and stored according to specifications.
reactions	Reacts with alcohols.
	Reacts with amines.
	Decomposes with water, acids and alkalis.
	Exothermic reaction.
	Danger of bursting.
Conditions to avoid	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition	
products:	No hazardous decomposition products when stored and handled correctly.
Toxicological information	tion
<b>Toxicological informa</b> Information on toxicologic Acute toxicity:	
Information on toxicologic	al effects
Information on toxicologic Acute toxicity:	al effects levant for classification:
Information on toxicologic Acute toxicity: LD/LC50 values that are re	al effects levant for classification: ) 1.5 mg/l (rat)
Information on toxicologic Acute toxicity: LD/LC50 values that are real Inhalative ATE-Wert (Nebel)	al effects levant for classification: ) 1.5 mg/l (rat)
Information on toxicologic Acute toxicity: LD/LC50 values that are re- Inhalative ATE-Wert (Nebel) 28182-81-2 Hexamethylene	al effects levant for classification: ) 1.5 mg/l (rat) e diisocyanate, oligomers
Information on toxicologicAcute toxicity:LD/LC50 values that are realInhalativeATE-Wert (Nebel)28182-81-2 HexamethyleneOralLD50	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers >2,500 mg/kg (rat) (OECD 423)
Information on toxicologic Acute toxicity: LD/LC50 values that are re- Inhalative ATE-Wert (Nebel) 28182-81-2 Hexamethylene Oral LD50 Dermal LD50	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers >2,500 mg/kg (rat) (OECD 423) >2,000 mg/kg (rat) (Acute Dermal Toxicity)
Information on toxicologicAcute toxicity:LD/LC50 values that are readerInhalativeATE-Wert (Nebel)28182-81-2 HexamethyleneOralLD50DermalLD50InhalativeLC50 / 4h	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers >2,500 mg/kg (rat) (OECD 423) >2,000 mg/kg (rat) (Acute Dermal Toxicity)
Information on toxicologic Acute toxicity: LD/LC50 values that are real Inhalative ATE-Wert (Nebel) 28182-81-2 Hexamethylene Oral LD50 Dermal LD50 Inhalative LC50 / 4h Primary irritant effect:	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers 2,500 mg/kg (rat) (OECD 423) 2,000 mg/kg (rat) (Acute Dermal Toxicity) 11 mg/l (ATE)
Information on toxicologic Acute toxicity: LD/LC50 values that are real Inhalative ATE-Wert (Nebel) 28182-81-2 Hexamethylene Oral LD50 Dermal LD50 Inhalative LC50 / 4h Primary irritant effect: on the skin: 28182-81-2 Hexamethylene	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers 2,500 mg/kg (rat) (OECD 423) 2,000 mg/kg (rat) (Acute Dermal Toxicity) 11 mg/l (ATE)
Information on toxicologic Acute toxicity: LD/LC50 values that are real Inhalative ATE-Wert (Nebel) 28182-81-2 Hexamethylene Oral LD50 Dermal LD50 Inhalative LC50 / 4h Primary irritant effect: on the skin: 28182-81-2 Hexamethylene	al effects levant for classification: 1.5 mg/l (rat) diisocyanate, oligomers >2,500 mg/kg (rat) (OECD 423) >2,000 mg/kg (rat) (Acute Dermal Toxicity) 11 mg/l (ATE) diisocyanate, oligomers
Information on toxicologic         Acute toxicity:         LD/LC50 values that are real         Inhalative       ATE-Wert (Nebel)         28182-81-2 Hexamethylene         Oral       LD50         Dermal       LD50         Inhalative       LC50 / 4h         Primary irritant effect:       on the skin:         28182-81-2 Hexamethylene       Dermal         LD50       Inhalative         LD50       Inhalative         Dermal       LS0 / 4h         Primary irritant effect:       on the skin:         28182-81-2 Hexamethylene       Dermal	al effects          levant for classification:         1.5 mg/l (rat)         e diisocyanate, oligomers         >2,500 mg/kg (rat) (OECD 423)         >2,000 mg/kg (rat) (Acute Dermal Toxicity)         11 mg/l (ATE)         e diisocyanate, oligomers         bit) (OECD- Prüfrichtlinie 404)
Acute toxicity:         LD/LC50 values that are real         Inhalative       ATE-Wert (Nebel)         28182-81-2 Hexamethylene         Oral       LD50         Dermal       LD50         Inhalative       LC50 / 4h         Primary irritant effect:       on the skin:         28182-81-2 Hexamethylene       Inhalative         Oral       LC50 / 4h         Primary irritant effect:       Inhalative         On the skin:       Inhalative         Dermal       Skin irritation         Inhe eye:       Inhalative	al effects          levant for classification:         1.5 mg/l (rat)         e diisocyanate, oligomers         >2,500 mg/kg (rat) (OECD 423)         >2,000 mg/kg (rat) (Acute Dermal Toxicity)         11 mg/l (ATE)         e diisocyanate, oligomers         bit) (OECD- Prüfrichtlinie 404)





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28182-81-2 Hexame	thylene diisocyanate, oligomers
Inhalative Sensibilisi	erung (mouse) (Lokaler Lymphknoten-Test (LLNA))
Other information (a	
experimental toxico	Iogy): Animal tests and other research indicate that skin contact with diisocyanates can play a role in
	causing isocyanate sensitization and respiratory reaction.
Subacute to chronic	c toxicity:
28182-81-2 Hexame	thylene diisocyanate, oligomers
NOAEL 3.3 mg/Tag	/inhalativ (rat)
Additional toxicolog	gical
information:	Special properties/effects: Over-exposure, especially when spraying coating containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respirato tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the UK Workplace Exposure Limit (WEL). Prolonged contact with the skin may cause tanning and irritant effects.
0	May cause an allergic skin reaction.
Carcinodenic cated	
Carcinogenic categ	
	Agency for Research on Cancer)
IARC (International None of the ingredier	Agency for Research on Cancer) Ints is listed.
IARC (International None of the ingredier NTP (National Toxic	Agency for Research on Cancer) Its is listed. cology Program)
IARC (International None of the ingredier	Agency for Research on Cancer) Its is listed. cology Program)
IARC (International None of the ingredier NTP (National Toxic None of the ingredier	Agency for Research on Cancer) Ints is listed. Cology Program) Ints is listed.
IARC (International None of the ingredier NTP (National Toxic	Agency for Research on Cancer) Ints is listed. Cology Program) Ints is listed.
IARC (International None of the ingredier NTP (National Toxic None of the ingredier Ecological inform Toxicity	Agency for Research on Cancer) its is listed. cology Program) its is listed. mation
IARC (International None of the ingredier NTP (National Toxic None of the ingredier Ecological inform Toxicity Aquatic toxicity:	Agency for Research on Cancer)         Its is listed.         cology Program)         Its is listed.         mation         Do not allow product to reach ground water, water course or sewage system
IARC (International None of the ingredier NTP (National Toxic None of the ingredier Ecological inform Toxicity Aquatic toxicity: 28182-81-2 Hexame	Agency for Research on Cancer) Its is listed. Cology Program) Its is listed. The mation Do not allow product to reach ground water, water course or sewage system Thylene diisocyanate, oligomers
IARC (International None of the ingredier NTP (National Toxic None of the ingredier Ecological inform Toxicity Aquatic toxicity: 28182-81-2 Hexame EC50 / 48h	Agency for Research on Cancer) ints is listed. ints is listed. ints is listed. ints is listed. intation Do not allow product to reach ground water, water course or sewage system thylene diisocyanate, oligomers >100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)
IARC (International None of the ingredier NTP (National Toxic None of the ingredier Ecological inform Toxicity Aquatic toxicity: 28182-81-2 Hexame EC50 / 48h IC50 / 72h	Agency for Research on Cancer) its is listed.   cology Program)   its is listed.   mation   Do not allow product to reach ground water, water course or sewage system thylene diisocyanate, oligomers   >100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)   >1,000 mg/l (algae) (DIN 38412)
IARC (International None of the ingredier NTP (National Toxic None of the ingredier 2 Ecological inform Toxicity Aquatic toxicity: 28182-81-2 Hexame EC50 / 48h IC50 / 72h LC50 / 96h	Agency for Research on Cancer) ints is listed. ints is listed. ints is listed. ints is listed. intation Do not allow product to reach ground water, water course or sewage system thylene diisocyanate, oligomers >100 mg/l (Daphnia magna) (OECD- Prüfrichtlinie 202)





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#### Trade name: Hardener for 2K Wood Oil (6633) (Contd. of page 9) Behavior in environmental systems: Bioaccumulative potential 28182-81-2 Hexamethylene diisocyanate, oligomers log POW ~8.38 (Wert berechnet) Mobility in soil No further relevant information available. Ecotoxical effects: Behavior in sewage processing plants: 28182-81-2 Hexamethylene diisocyanate, oligomers EC0 / 3h >100 mg/l (Daphnia magna) EC50 3,828 mg/l (activated sludge organism) (OECD Guideline for Testing of Chemicals, No.209) Additional ecological information: General notes: The resin reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable. Water hazard class 1 (Assessment by list): slightly hazardous for water Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available. 13 Disposal considerations Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations. Uncleaned packagings: Recommendation: Waste treatment methods: After final product withdrawal, all residues must be removed from containers (drip-free, powderfree or paste-free). Once the product residues adhering to the walls of the containers have been rendered harmless, the product and hazard labels must be invalidated. These containers can be returned for

recycling to the appropriate centres set up within the framework of the existing takeback scheme of the chemical industry. Containers must be recycled in

compliance with national legislation and environmental regulations.

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4 Transport information		
UN-Number		
DOT/TDG, ADR, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOT/TDG, ADR, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group		
DOT/TDG, ADR, IMDG, IATA	Not applicable	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:	Special precautions for user : Not dangerous cargo.	
	Slight smell. Keep dry.	
	Avoid heat above +50 °C.	
	Keep away from foodstuffs, acids and alkalis.	
UN "Model Regulation":	Not applicable	

#### 15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

822-06-0 hexamethylene-di-isocyanate

TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

Canadian substance listings:

Canadian Domestic Substances List (DSL)

All ingredients are listed.

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Canadian Non-Domestic Su	
None of the ingredients is liste	ed.
Canadian Ingredient Disclo	sure list (limit 0.1%)
None of the ingredients is liste	ed.
Canadian Ingredient Disclo	sure list (limit 1%)
None of the ingredients is liste	ed.
GHS label elements	The substance is classified and labeled according to the Globally Harmoniz System (GHS).
Hazard pictograms	GHS07
Signal word	Warning
Hazard-determining	
components of labeling:	Hexamethylene diisocyanate, oligomers
Hazard statements	H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.
Precautionary statements	<ul> <li>P260 Do not breathe vapours.</li> <li>P262 Do not get in eyes, on skin, or on clothing.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P301 IF SWALLOWED:</li> <li>P331 Do NOT induce vomiting.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortabl for breathing.</li> <li>P316 Get emergency medical help immediately. Call a Poison Centr</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405 Store locked up.</li> <li>P501 Dispose of contents/container in accordance with national regulations.</li> </ul>
National regulations:	
Other regulations, limitation and prohibitive regulations	<b>ns</b> Other regulations: The European Committee of Paint, Printing Ink and Artist Colours Manufacturers' Associations (CEPE) provides the following information on coatings containing isocyanates: Ready-to-use paints containing isocyanates may have an irritant effect on mucous membranes especially on breathing organs - and cause hypersensitivity reactions. Inhalation of vapor or spray mist may cause sensitisation. When handling paints containing isocyanates all precautions required for solvent-containing paints must be followed. Vapor and spray mist in particular should not be inhaled. Allergics and asthmatics as well as people prone to respiratory ailments should not work with isocyanate containing paints.



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### Trade name: Hardener for 2K Wood Oil (6633)

*Chemical safety assessment:* A Chemical Safety Assessment has been carried out.

	r present knowledge. However, this shall not constitute a guarantee for any all not establish a legally valid contractual relationship.
Relevant phrases	<ul> <li>H302 Harmful if swallowed.</li> <li>H311 Toxic in contact with skin.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H331 Toxic if inhaled.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> </ul>
Recommended restriction of	
use	The product is used as a hardener in coating materials. Appropriate protect measures are required to deal with coating materials that contain reactive polyisocyanates and residual monomeric HDI (see also this safety data she They may therefore only be used in industrial or professional applications. They are not suitable for use in do-it-yourself applications.
Department issuing SDS:	product safety department
Contact:	Hr. Dr. Starp
Date of the latest revision of	02/14/2023
the safety data sheet Abbreviations and acronyms:	ICAO: International Civil Aviation Organisation IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Sources	ESIS : European chemical Substances Information System ECHA Portal Safety data sheets from raw material suppliers
* Data compared to the	,
, previous version altered.	Additions, deletions, revisions