

Safety Data Sheet

according to Regulation (EC) No 1907/2006



WOOD SATIN FINISH

Compilation date: 02.11.2017
Revision date: 11.12.2017

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

1.1 Product identifier

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

Use of the substance/mixture

Inapplicable.

1.3 Details of the supplier of the safety data sheet

Company name: Arcora International GmbH
Street: Marsstraße 9
Place: 85609 Aschheim by Munich
Germany
Tel: +49 (0)89 / 14 33 29 3-0
Fax: +49 (0)89 / 14 33 29 3-29
E-Mail: info@arcora.de

1.4 Emergency telephone number + 49 (0) 89 / 14 33 29 3-10

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Hazard categories:

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Hazard Statements:

Harmful to aquatic life with long lasting effects.

Ingredients of unknown toxicity

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 28%
There is no toxicity data available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

Ingredients of unknown ecotoxicity

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 28%
There is no data for hazards to the aquatic environment available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

2.2 Label elements

The product is classified as dangerous according to Directive 1999/45/EC and it is not amendments.

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

- General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
- Prevention:** Avoid release to the environment.
- Response:** Not applicable
- Storage:** Not applicable
- Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

None known.

Section 3. Composition/information on ingredients

3.1 Mixtures

Hazardous components

EG-No.	Chemical name	Quantity
CAS-No.		
Directory	Classification according to regulation (EG) No. 1272/2008 CLP]	
REACH-No.		
203-961-6	2-(2-Butoxyethoxy) ethanol	≥ 1 - < 5
112-34-5		
603-096-00-8	Eye Irrit. 2, H319	
212-828-1	N-Methyl-2-pyrrolidone	< 5
872-50-4		
606-021-00-7	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Repr. 1B, H360D (Kind im Mutterleib); STOT SE 3, H335 (Atemwegsreizung); Aquatic Chronic 2, H411	
203-905-0	2-Butoxyethanol	< 1 - < 3
111-76-2		
603-014-00-0	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
	Octylphenol, ethoxylated	< 1
9036-19-5		
	Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
500-315-8	4-nonylphenol, branched, ethoxylated	≥ 0,1 - < 1
127087-87-0		
	Acute Tox. 4, H302	
220-120-9	1,2-benzisothiazol-3 (2H) -one	< 0,05
2634-33-5		
613-088-00-6	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

Full text of H and EUH statements: see section 16.

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There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms/effects, acute and delayed

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Over-exposure signs/symptoms:

Inhalation No specific data.

Skin contact No specific data.

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Eye contact No specific data.
Ingestion No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:
carbon dioxide carbon monoxide, nitrogen oxides.

5.3 Advice for firefighters

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Not available

8.1 Spezifische Endanwendungen

Arbeitsplatzgrenzwerte (TRGS 900)

Ingredient name	Exposure limits
2- (2-butoxyethoxy) ethanol	Arbejdstilsynet (Denmark, 10/2012). TWA: 68 mg/m ³ 8 hours. TWA: 10 ppm 8 hours.
N-Methyl-2-pyrrolidone	Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. TWA: 5 ppm 8 Stunden. TWA: 20 mg/m ³ 8 hours.
2-butoxyethanol	Arbejdstilsynet (Denmark, 10/2012). Absorbed through skin. TWA: 20 ppm 8 hours. TWA: 98 mg/m ³ 8 hours.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

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Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	Opaque White
Odour:	bland

pH-value (at 20 °C):	7,5-8,5
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Test method

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Changes in the physical state

Melting point: approx. 0 °C
Initial boiling point and boiling range: approx. 100 °C
Flash point: Closed cup: > 93,334 °C

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

not oxidising.

Vapor pressure: < 4 kPa (room temperature)
Density: 1,03 g/cm³
Water solubility: not available

Solubility in other solvents

not determined

Partition coefficient: not applicable
Dyn. Viscosity (at 25 °C): not applicable
Vapour density: < 1
Evaporation rate: not determined
VOC-content: 251 g/l

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

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	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin mild irritant	Rabbit	-	500 mg	-
Octylphenol, ethoxylated	Eyes - mild irritant	Rabbit	-	15 mg	-
	Eyes - Severe irritant	Rabbit	-	1 %	-
1,2-benzisothiazol-3 (2H) -one	Skin mild irritant	Human	-	48 hours 5%	-

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
N-methyl-2-pyrrolidone	Category 3	Inapplicable	Airway irritation

Possible acute effects on health

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Symptoms related to the physical, chemical and toxicological characteristic

Inhalation	No specific data.
Skin contact	No specific data
Eye contact	No specific data
Ingestion	No specific data.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2- (2-butoxyethoxy) ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
N-methyl-2-pyrrolidone	Acute LC50 1.23 ppm Fresh water	Daphnie - Daphnia magna	48 hours
	Acute LC50 832 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
2-butoxyethanol	Acute EC50 1000 mg/l fresh water	Daphnie - Daphnia magna	48 hours
	Acute LC50 800000 µg/l marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l marine water	Fish - Menidia beryllina	96 hours
Octylphenol, ethoxylated	Acute EC50 210 µg/l fresh water	Algen - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 10800 µg/l marine water	Crustaceans - Pandalus montagui - Adultus	48 hours
	Acute LC50 8600 µg/l fresh water	Daphnie - Daphnia magna neonate	48 hours

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	Acute LC50 7200 µg/l fresh water	Fish - Oncorhynchus mykiss	96 hours
1,2-benzisothiazol-3 (2H) - one	Acute EC50 97 ppb fresh water	Daphnie - Daphnia magna	48 hours
	Acute LC50 10 bis 20 mg/l fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 167 ppb fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2- (2-butoxyethoxy) ethanol	1	-	Low
N-methyl-2-pyrrolidone	-0,46	-	Low
2-butoxyethanol	0,81	-	Low

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

Packaging

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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14.5 Environmental hazards

No

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU regulatory information (EG) No. 1907/2006 (REACH)

Annex XIV the list of substances subject to authorisation.

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
1-methyl-2-pyrrolidone	Teratogenic	Candidate	ED/31/2011	6/30/2011
4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and welldefined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Substance of equivalent concern	Candidate	ED/69/2013	4/15/2013
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	Substance of equivalent concern	Recommended	ED/169/2012	6/11/2013

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

Other EU regulations

All components are listed or exempted.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
N-Methyl-2-pyrrolidon	-	-	Repr. 1B, H360D (unborn child)	-

Seveso II Directive

This product is not controlled under the Seveso II Directive.

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Restrictions on use: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.

15.2 2 Chemical Safety Assessment

This product contains a substance(s) for which a chemical safety assessment is not required because it is below the maximum allowable import threshold under REACH.

SECTION 16: Other information

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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:

PROC 1: Use in closed processes.

PROC 8 Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.

PROC 10 (Roller application or brushing): Processing without large-scale spraying.

PROC 11 (Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).

PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation. (Respiratory tract irritation)
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.