



*Fused Bamboo<sup>®</sup> for Exterior Use*

**Dasso XTR Material Safety Data Sheet**

April 25, 2013

Dasso .XTR Fused Bamboo decking is made from (by weight):

- 1) Natural Bamboo – approx. 87%
- 2) Dynea Phenolic Resin – approx. 13%
- 3) And if prefinished – Trip Trap Woca Exterior Oil – > 1%

Attached you will find Material Safety Data Sheets (MSDS) for the following:

- 1) dasso .XTR Decking/Siding/Components
  - a. MSDS
- 2) From Dynea:
  - a. Product Technical Data Sheet
  - b. MSDS
- 3) From Trip Trap/WOCA:
  - a. Product Technical Data Sheet
  - b. MSDS

Should you need more information please contact Dasso XTR at 1.215.310.0711



# Material Safety Data Sheet – MSDS

For XTR Fused Bamboo® Products

## Fused Bamboo® for Exterior Use

Dasso.XTR  
115C Twinbridge Drive  
Pennsauken, NJ 08110 USA

**Emergency Phone: 1.267.973.7477**  
Additional Information: 1.609.310.0711  
Email: info@dassoXTR.com

Product Identification	
Product	Manufacturing Location
<b>Unfinished Dasso XTR Decking, Siding &amp; Components</b>	<b>Hangzhou China.</b>
<b>Prefinished Dasso XTR Decking, Siding &amp; Components</b>	<b>Hangzhou China.</b>

Synonyms: Fused Bamboo Decking, Siding, Components

Hazardous Ingredients/Identity Information					
Name	CAS#	Percent	Agency	Exposure Limits	Comments
<b>Natural Bamboo #1</b>	None	85-87%	OSHA OSHA ACGIH ACGIH	PEL-TWA 15 mg/m3 PEL-TWA 5 mg/m3 TLV-TWA 3 mg/m3 TLV-STEL 10 mg/m3	Total dust Respirable dust fraction Respirable dust fraction Inhalable particles
<b>Dynea Phenol-formaldehyde #2</b>	None	12 – 15%	OSHA OSHA ACGIH	PEL-TWA 0.75 ppm PEL-STEL 2 ppm TLV- Ceiling 0.3 ppm	Free gaseous formaldehyde Free gaseous formaldehyde Free gaseous formaldehyde
<b>WOCA Exterior Oil #3</b>	None	0-1%	OSHA ACGIH	PEL-TWA None TLV-TWA None	None None

- Bamboo is a member of the grass family which has distinct anatomical differences from that of wood. Therefore, bamboo would be regulated as an organic dust in a category known as "Particulates Not Otherwise Regulated" (PNOR), or Nuisance Dust by OSHA. The ACGIH classifies dust or particulate in this category as "Particulates Not otherwise Specified".
- Dynea is the supplier of Phenolic Resin & attached is their MSDS. XTR Product contains no free formaldehyde.
- For pre-finished XTR decking/siding only which was factory finished by Dasso. WOCA brand Exterior Oil is the supplier & attached is their MSDS

Hazard Identification	
<p><b>Appearance and Odor:</b> A matrix of brown colored interlocking bamboo fibers bonded with phenol-formaldehyde resin having a slightly aromatic odor.</p> <p><b>Primary Health Hazards:</b> The primary health hazards posed by these products are thought to be due to exposure to dust generated when machining this product (e.g. sanding, sawing, routing and or planning)..</p> <p><b>Primary Route(s) of Exposure:</b> ( ) Ingestion:      (X) Skin: Dust      (X) Inhalation: Dust</p>	<p><b>Medical Conditions Generally Aggravated by Exposure:</b> Dust may aggravate preexisting respiratory conditions or allergies.</p> <p><b>Chronic Health Hazards:</b> Bamboo dust has not been associated with any long term health effects including cancer in animals as well as humans.</p> <p><b>Carcinogenicity Listing:</b> ( ) NTP: Not Listed                      ( ) IARC Monographs: Not Listed; ( ) OSHA Regulated: Not Listed</p>

Emergency & First Aid Procedures	
<b>Ingestion:</b> Not applicable under normal use.	<b>Eye Contact:</b> Dust may cause mechanical irritation. Treat dust in eye as



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For XTR Fused Bamboo® Products

## Fused Bamboo® for Exterior Use

foreign object. Flush with water to remove dust particles. Get medical help if irritation persists.

**Skin Contact:** Not applicable for this product in its purchased form, frequent handling of dust or product in its manufactured form may cause some minor drying of the skin, mechanical abrasion, cuts or slivers. Wash hands after handling and obtain medical help if rash or irritation occurs. or breathing difficulty occurs.

**Skin Absorption:** Not known to occur under normal use.

**Inhalation:** Not applicable for this product in its purchased form. Bamboo dust may cause obstruction in the nasal passages, resulting in dryness of nose, dry cough and sneezing. Remove to fresh air. Get medical help if persistent irritation, severe coughing

### Fire & Explosion Data

**Flash Point (Method Used):** NAP

**Flammable Limits:** LEL: NAP UEL: NAP

**Extinguishing Media:** Water, carbon dioxide, sand or dry chemical.

**Auto ignition Temperature:** Variable [typically 400-500°F (204-260°C)]

**Special Firefighting Procedures:** None.

**Unusual Fire and Explosion Hazards:** None

### Accidental Release Data

**Steps to be Taken In Case Material Is Released or Spilled:** Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling, or routing of products may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. A NIOSH-approved dust respirator should be worn if dust exposure limits are exceeded.

### Handling & Storage

**Precautions to be Taken In Handling and Storage:** No special handling precautions are required for products in purchased form. These products may release very small quantities of formaldehyde in gaseous form. Under foreseeable conditions of use, these products release less than 0.020 ppm in standard large chamber test conditions. Keep in cool, dry place away from open flame. Store in well ventilated area.

### Exposure Control Measures

#### Personal Protective Equipment:

**RESPIRATORY PROTECTION** -- Not applicable for product in purchased form. A NIOSH-approved dust respirator is recommended when allowable exposure limits are exceeded.

**PROTECTIVE GLOVES** -- Not required. However, cloth, canvas, or leather gloves are recommended to minimize potential mechanical irritation or slivers from handling and machining product.

**EYE PROTECTION** -- Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT** -- Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.

**WORK/HYGIENE PRACTICES** -- Follow good hygienic and housekeeping practices. Clean up areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize clean-up with compressed air or other practices that generate high airborne-dust concentrations.

#### Ventilation:

**LOCAL EXHAUST** - Provide local exhaust as needed so that exposure limits are met.

**MECHANICAL(GENERAL)** - Provide general ventilation in processing and storage areas so that exposure limits are met.

**SPECIAL** - None.

**OTHER** - None.

### Physical Chemical Properties

**Boiling Point (@ 760 mm Hg):** NAP

**Vapor Density (air = 1; 1 atm):** NAP

**Evaporation Rate (Butyl acetate = 1):** NAP

**% Volatile by Volume [@ 70°F (21°C)]:** 0

**Vapor Pressure (mm Hg):** NAP

**Specific Gravity (H<sub>2</sub>O = 1):** 1.18 g/ml

**Solubility in Water (% by weight):** <0.1

**PH:** NAP



Fused Bamboo® for Exterior Use

Oil-water distribution coefficient: NAP

Odor threshold: ND

**Stability & Reactivity**

**Stability:** ( ) Unstable (x) Stable

**Conditions to Avoid:** Avoid open flame. Product may ignite at temperatures in excess of 400°F (204°C).

**Incompatibility (Materials to Avoid):** Avoid contact with oxidizing agents.

**Hazardous Decomposition or By-Products:** Thermal decomposition products include carbon monoxide, carbon

dioxide, aliphatic aldehydes, rosin acids, terpenes, and polycyclic aromatic hydrocarbons.

**Hazardous Polymerization:** ( ) May occur (x) Will not occur

**Sensitivity to Mechanical Impact:** NAP

**Sensitivity to Static Discharge:** NAP

**Toxicological Information**

None available for product in purchased form.

Formaldehyde OSHA Hazard rating = 3 for local and systemic acute and chronic exposures; highly toxic. Irritation studies: human skin, 150 ug/3 days, intermittent exposure produced mild results; human eye, 1 ppm/6 minutes, produced mild results. Toxicity studies: human inhalation TCLO of 8 ppm reported but response not specified; human inhalation TCLO of 17/mg/m3 for 30 minutes produced eye and pulmonary results; human inhalation TCLO of 300ug/m3 produced nose and CNS results; LC50 (rat, inhalation) = 1,000 mg/m3/30 minutes; LC50 (mice, inhalation) = 400mg/m3/2 hours.

Sources: Lewis, R.J., Sr. 1992 *Sax's Dangerous Properties of Industrial Materials*, Eighth Edition, Van Nostrand Reinhold, NY.; NIOSH *Registry of Toxic Effects of Chemical Substances (RTECS)*, 1983-1984 Cumulative Supplement to 1981-1982 Edition and May 1995; OSHA *Regulated Hazardous Substances*, Government Institutes, Inc., February 1990.

**Ecological Information**

No information available at this time.

**Disposal Consideration**

**Waste Disposal Method:** If disposed of or discarded in its purchased form, incineration is preferable. Dry land disposal is acceptable in most states. It is, however, the user's responsibility to determine at the time of disposal whether your product meets RCRA criteria for hazardous waste. Follow applicable federal, state, and local regulations.

**Transport Information**

Not regulated as a hazardous material by the U.S. Department of Transportation. Not listed as a hazardous material in Canadian Transportation of Dangerous Goods (TDG) regulations.

**Regulatory Information**

**TSCA:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**Chemicals listed:** Formaldehyde CAS# 50-00-0

**DSL:** All ingredients are listed or are not required to be listed under the Canadian Domestic Substance List.

**Chemicals listed:** Formaldehyde CAS# 50-00-0

**WHMIS Classification:** Not a controlled product

**STATE RIGHT-TO KNOW**

- **California Prop 65** –This product contains formaldehyde which depending on temperature and humidity may be emitted from the product. Formaldehyde is a compound that is known in the State of California to cause cancer. Dasso XTR LLC has evaluated formaldehyde emission rates from its products (typical range of 0–0.01 ppm) and found these rates to be below the no significant risk level that would require product warnings.
- **New Jersey** - Not listed
- **Pennsylvania** –This product contains formaldehyde which depending on temperature and humidity may be emitted from the



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product. When cut or otherwise machined, the product may emit wood dust, a listed substance in Pennsylvania

• SARA 313 Information

This product contains formaldehyde at a concentration that subjects the chemical to SARA Title III Section 313 supplier notification requirements. However, the emissions characteristics and concentrations have been measure using ASTM E1333 test methods (typical average concentration of 0.015 ppm equates to a yearly emission rate of 0.01 lbs/yr). This emission rate falls well below the Threshold Planning Requirement for Formaldehyde of 500 lbs.

• SARA 311/312 Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under SARA Title III Sections 311 and 312 and is considered, under applicable definitions, to meet the following categories:

- An immediate (acute) health hazard – yes – dust only
• A delayed (chronic) health hazard - no
• A fire hazard - no
• A reactivity hazard - no
• A sudden release hazard – no

Additional Information

Date Prepared: 05/1/13

Prepared By: Hongzheng Liu

User's Responsibility:

This information is offered in good faith. It is believed to be accurate and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Dasso XTR makes no warranty of any kind, expressed or implied, concerning the accuracy or completeness of the information and data herein. Furthermore, Dasso XTR will not be liable for claims relating to any party's use of, or reliance on information and data contained herein, regardless of whether it is claimed that the information and data are inaccurate, incomplete, or otherwise misleading. It is the responsibility of the user to comply with local, state, and/or federal regulations concerning the storage, use, processing, and disposal of the product or subsequently generated waste. It is the responsibility of the user to ensure that this MSDS is the most current version.

Definition of Common Terms:

Table with 2 columns: Abbreviation and Definition. Includes terms like ACGIH, CAS#, EPA, IARC, LCLo, LC50, LDLO, LD50, MSHA, ND, NAP, NAV, NIOSH, NTP, OSHA, PEL, PPM, RCRA, STEL, TDG, TCLO, TDLO, TLV, TSCA, TWA, and WHMIS.

## Technical Data Sheet

[www.dynea.com](http://www.dynea.com)

R&D Centre  
Region Asion Pacific

# Liquid Phenol-Formaldehyde Resin

## Exp 3G 0063L

### Application

Liquid phenol formaldehyde Exp 3G 0063L is one type of thermosetting glue, which applies to wood industry and especially to bamboo industry. Base on impregnation and saturation industry, Dynea from Finland developed the special resin, having good penetrability, excellent wettability, and high bonding strength, resistance to aging and low free formaldehyde.

### Specification

Appearance	Brown red liquid
Viscosity (30°C)	30~80cps
Solid content (1hr/135°C)	48~52 %
Free formaldehyde	≤0.5 %
Free phenol	≤3%
pH	9.5~10.5
Water solubility (25°C)	≥20 times

### Package

1200Kg in PE drum or tanker.

### Storage

Storage temperature	Storage life
5-10°C	Approximate 45 days
10-20°C	Approximate 30 days

The temperature for Exp 3G 0063L storage should be 10-20 °C. At this temperature, Exp 3G 0063L kept in normal iron drum or PE drum may be stored for 30 days. Keep at low storage

## Technical Data Sheet

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Region Asion Pacific

temperature as far as possible. The storage life is related to glue viscosity, and the glue viscosity will increase with the storage life, increasing speed depends on the temperature. Higher temperature, shorter storage life.

### Application in wood and bamboo industry

#### Resin Impregnation

Because of the special fibre structure of bamboo, resin impregnation is the glue spread method applying to bamboo. Water is used properly to lower viscosity and solid content of the resin before resin impregnation, which is benefit for glue saturation in bamboo. Solid content which is confirmed by material and manufacturing technique can be kept at 30% in resin impregnation.

Keep stable resin impregnation conditions including solid content, resin temperature, resin viscosity, pH value and so on, which is good to stabilize upper manufacturing technique. Negative pressure vaccumize method is used to improve resin impregnation

Resin impregnation is adjusted according to actual situation.

#### Assembly

Assembly depends on panel structure and thickness requirement

#### Hot Pressing

The adoption of different pressure should refer to different species' densities. hot pressing pressure is 50~90kg/cm<sup>2</sup>.

Hot pressing temperature: 125~150°C.

Hot pressing time: thickness of the finished product × (1.3-1.8) min + pressure holding time (10-20 min). If the panel structure is special, hot pressing time will be confirmed by actual situation.

It is suggested that heat stacking should be done for several hours after hot pressing to make the glue fully curing. Heat stacking also can avoid warp, distortion and crack.

#### Cleaning

Resin impregnation equipment must be cleaned up using cold water before and after glue mixing. Once the glue dry out and become insoluble, it will have to be removed by scrape. We should be careful to deal with residual glue and cleanout water according to the requirement of local environment protection department.

Product : **Phenolic resin EXP3G0063L**

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Date : 03/08/09  
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<p><b>1) IDENTIFICATION OF SUBSTANCE AND COMPANY :</b></p> <p>-Trade name :</p> <p>- Company/supplier :</p> <p>:</p>	<p>Phenolic resin : Prefere70 5504L</p> <p><b>DYNEA (Guangdong) CO., LTD</b> Jinli Town, Gaoyao City, Guangdong Province , China Zip code:526105 Tel. : (86) 0758-8579988</p>															
<p><b>2) COMPOSITION / DATA ON COMPONENTS :</b></p>	<p>Synthetic resin resulting of the polycondensation of phenolic function materials with formaldehyde, resol type in aqueous solution.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 60%;">Components</th> <th style="width: 15%;">n° CAS</th> <th style="width: 25%;">Phrases R</th> </tr> </thead> <tbody> <tr> <td>Phenol-Formaldehyde Polymer ab 50%</td> <td style="text-align: center;">/</td> <td style="text-align: center;">/</td> </tr> <tr> <td>Water ab 50%</td> <td style="text-align: center;">/</td> <td style="text-align: center;">/</td> </tr> <tr> <td>Phenol : &lt;3 %</td> <td style="text-align: center;">108-95-2</td> <td style="text-align: center;">24/25 34</td> </tr> <tr> <td>Formaldehyde : &lt;0.5 %</td> <td style="text-align: center;">50-00-0</td> <td style="text-align: center;">23/24/25-34-40-43</td> </tr> </tbody> </table>	Components	n° CAS	Phrases R	Phenol-Formaldehyde Polymer ab 50%	/	/	Water ab 50%	/	/	Phenol : <3 %	108-95-2	24/25 34	Formaldehyde : <0.5 %	50-00-0	23/24/25-34-40-43
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<p><b>3) HAZARDS IDENTIFICATIONS.:</b></p> <p>- Harmful effects on health :</p> <p>- Harmful effects on environment :</p> <p>- Physical and chemical hazards :</p> <p>- Classification - specific risks :</p>	<p>T : Toxic R 24/25 : Toxic in contact with skin and if swallowed R 34 : Causes burns R 43 : May cause sensitization by skin contact Risk of pollution of water in case of accidental spillage</p> <p>Exothermic reaction with acids Exothermic crosslinking reaction above 100°C</p> <p>T : Toxic (according EEC directives)</p>															
<p><b>4) FIRST AID MEASURES :</b></p> <p>- General indication :</p> <p>- Inhalation :</p> <p>- Skin contact :</p> <p>- Eyes contact :</p> <p>- Ingestion :</p>	<p>Instantly remove any clothing soiled by the product Remove the victim to fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration Wash with water and soap Wash with plenty of water. Can be irritating. Seek medical advice. Wash out mouth immediately with water. Seek medical advice.</p>															
<p><b>5) FIRE FIGHTING MEASURES :</b></p> <p>- Fire fighting :</p> <p>- Specific hazards :</p> <p>- Protective equipments :</p>	<p>Pulverised water - Carbon dioxide Harmful and irritating fumes emission Automatic respiratory apparatus recommended</p>															
<p><b>6) ACCIDENTAL RELEASE MEASURES :</b></p> <p>- Safety precautions for people:</p> <p>- Measures for environmental protection:</p> <p>- Measures for cleaning/collecting :</p> <p style="padding-left: 20px;">* Collecting :</p> <p style="padding-left: 20px;">* Elimination :</p>	<p>Wear a protective equipment, clothes, gloves and goggles Dam up and restrain the spillage Avoid the contamination of sewers and rivers</p> <p>Collect the liquid with liquid binding material (sand - sawdust) Destroy the material by incineration in a licensed incinerator</p>															
<p><b>7) HANDLING AND STORAGE :</b></p> <p>- Handling :</p> <p style="padding-left: 20px;">* Technical measures :</p> <p style="padding-left: 20px;">* Precautions :</p>	<p>No special recommendations Wear gloves and goggles Do not smoke during manufacturing Ensure a good ventilation of the working places, particularly where the crosslinking of the resin take place (emission of fumes)</p>															

**Product : Phenolic resin EXP3G0063L**

<p>- Storage :</p> <ul style="list-style-type: none"> <li>* Technical measures</li> <li>* Recommended storage conditions</li> <li>* Storage conditions to avoid :</li> <li>* Incompatible materials :</li> <li>* Recommended packing materials :</li> </ul>	<p>Resol type resin are ageing during storage Assure a correct stock protection Store in cool conditions, in original closed drums Keep away from heat For alcalin resols avoid sensitive metals, such as aluminium, etc. Polyethylene - Polypropylene – Steel</p>																			
<p><b>8) EXPOSURE CONTROLS AND PERSONAL PROTECTION :</b></p> <p>- Technical measures :</p> <p>- Exposure parameters :</p> <p>- Protective equipments :</p> <ul style="list-style-type: none"> <li>* Breath protection:</li> <li>* Hands protection:</li> <li>* Eyes protection :</li> <li>* Body protection :</li> </ul> <p>- Hygiene measures :</p>	<p>During crosslinking of the resin by heat, there is an emission of fumes (water, phenol, etc.) Ensure good ventilation/exhaustion at the work place</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">FRANCE</th> <th>GERMANY</th> <th>USA ACGIH</th> </tr> <tr> <th>VME</th> <th>VLE</th> <th>MAK</th> <th>TLV</th> </tr> </thead> <tbody> <tr> <td>Formol n° CAS 50-00-0</td> <td>0,5 ppm 0,6 mg/m<sup>3</sup></td> <td>1 ppm 1,2 mg/m<sup>3</sup></td> <td>0.3 ppm 0.37 mg/m<sup>3</sup></td> <td>0.3 ppm 0.37 mg/m<sup>3</sup></td> </tr> <tr> <td>Phenol n° CAS 108-95-2</td> <td>5 ppm 19 mg/m<sup>3</sup></td> <td>/ /</td> <td>5 ppm 19 mg/m<sup>3</sup></td> <td>5 ppm 19 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p>No special requirement Wear PVC or other plastic materials gloves Wear goggles If risk of splash, wear a protective cloth Do not eat and do not smoke during the use of the resin</p>		FRANCE		GERMANY	USA ACGIH	VME	VLE	MAK	TLV	Formol n° CAS 50-00-0	0,5 ppm 0,6 mg/m <sup>3</sup>	1 ppm 1,2 mg/m <sup>3</sup>	0.3 ppm 0.37 mg/m <sup>3</sup>	0.3 ppm 0.37 mg/m <sup>3</sup>	Phenol n° CAS 108-95-2	5 ppm 19 mg/m <sup>3</sup>	/ /	5 ppm 19 mg/m <sup>3</sup>	5 ppm 19 mg/m <sup>3</sup>
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<p><b>9) PHYSICAL AND CHEMICAL PROPERTIES :</b></p> <p>- Physical aspect</p> <p>- Form :</p> <p>- Colour :</p> <p>- pH :</p> <p>- Decomposition temperature :</p> <p>- Flash point :</p> <p>- Ignition temperature :</p> <p>- Explosivity datas :</p> <p>- Density :</p> <p>- Solubility :</p>	<p>Liquid Liquid Reddish 8 – 9 About 300°C &gt; 300°C Product not self igniting(&gt;500°C) Product not explosive / Soluble in water</p>																			
<p><b>10) STABILITY AND REACTIVITY</b></p> <p>- Stability :</p> <p>- Dangerous reactions :</p> <p>- Dangerous products of decomposition</p>	<p>Resol type resin are ageing during storage. They are not stable At high temperature (&gt;80°C) crosslinking reactions occur with an exothermic effect Dangerous reactions with acids, a cross linking reaction may happen, also with exothermic effect The decomposition begins at about 300°C Between 300 &amp; 600°C emission of gaseous products H<sub>2</sub>O - CO - CO<sub>2</sub> - Methane - Phenols - Cresols - Xylenols The total oxydation will give H<sub>2</sub>O - CO - CO<sub>2</sub></p>																			
<p><b>11) TOXICOLOGICAL INFORMATIONS :</b></p> <p>- Acute Toxicity :</p> <p>- Primary irritant effect - sensitization :</p> <ul style="list-style-type: none"> <li>* on the skin :</li> <li>* on eyes :</li> <li>* sensitization :</li> </ul> <p>- Chronic toxicity - long term toxicity :</p>	<p>DL 50 orl/rat : &gt; 5000 mg/kg</p> <p>Caustic effect on skin and mucous membranes Strong caustic effect Risk of sensitizing effect Swallowing will lead to a caustic effect on mouth and throat</p>																			

**Product : Phenolic resin EXP3G0063L**

<p><b>12) <u>ECOLOGICAL INFORMATION</u></b></p> <ul style="list-style-type: none"> <li>- Mobility :</li> <li>- Persistence - degradability :</li> <li>- Ecotoxicity :</li> </ul>	<p>Do not allow product to reach ground water or sewage system  Highly diluted solutions of phenol and formaldehyde are biodegradable. Higher concentration can be fatal for the aquatic life.  For phenol only : CE 50 (Daphnia magna) /24 h : 29 mg/l  CL 50 (fish : Pimephales promelas)/ 48h : 11.6 mg/l  For formol only : Concentrations between 50 - 200 mg/l destroy the superior aquatic life (Guppies). Concentrations between 1 - 2 mg/l disturb the growing up of bacterias, algae and other micro organisms (E. coli, Scenedesmus).</p>
<p><b>13) <u>DISPOSAL CONSIDERATIONS:</u></b></p> <ul style="list-style-type: none"> <li>-Product : <ul style="list-style-type: none"> <li>* Interdiction :</li> <li>* Destruction/elimination :</li> </ul> </li> <li>- Uncleaned packagings : <ul style="list-style-type: none"> <li>* Destruction/elimination :</li> </ul> </li> <li>- Remarks :</li> </ul>	<p>Do not remove in sewer and in natural environment  Incinerate in a licensed incinerator</p> <p>Empty contaminated packaging can be recycled after proper cleaning  Recommended cleaning agent : diluted caustic solution  Remove according local authority recommendations for the elimination of industrial wastes</p>
<p><b>14) <u>TRANSPORT INFORMATION</u></b></p>	<p>No dangerous regarding the legislation for the transportation of hazardous goods</p>
<p><b>15) <u>REGULATORY INFORMATION</u></b></p> <ul style="list-style-type: none"> <li>- Code letter and hazard designation of product :</li> <li>- Hazard determining components of labelling :</li> <li>- Risk phrases :</li> <li>- Safety phrases :</li> </ul>	<p>Labelling according EEC legislation about dangerous substances</p> <p>T : Toxic</p> <p>Phenol</p> <p>R 24/25 : Toxic in contact with skin and if swallowed  R 34 : Causes burns  R 43 : May cause sensitization by skin contact  S 28 : After contact with skin, wash immediately with plenty of water  S 45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)</p>
<p><b>16) <u>OTHER INFORMATION</u></b></p>	<p>This safety data sheet is a complement for the technical data sheet but does not replace it. These informations are based on our present knowledge of the product. They are given in good faith. The users have to take into consideration the eventual risk when they are using the material for an other use than this one intended. The users have also to know and apply the authority recommendations according their activity. The users are responsible for taking all necessary precautions in the use of the product.</p>

Product : **Phenolic resin EXP3G0063L** Page : 1/3  
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Version : 1

<p><b>1) IDENTIFICATION OF SUBSTANCE AND COMPANY :</b></p> <p>-Trade name :</p> <p>- Company/supplier :</p>	<p>Phenolic resin : Prefere70 5504L</p> <p><b>DYNEA (Guangdong) CO., LTD</b> Jinli Town, Gaoyao City, Guangdong Province , China Zip code:526105 Tel. : (86) 0758-8579988</p>															
<p><b>2) COMPOSITION / DATA ON COMPONENTS :</b></p> <p>- Dangerous components :</p>	<p>Synthetic resin resulting of the polycondensation of phenolic function materials with formaldehyde, resol type in aqueous solution.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Components</th> <th style="width: 15%;">n° CAS</th> <th style="width: 25%;">Phrases R</th> </tr> </thead> <tbody> <tr> <td>Phenol-Formaldehyde Polymer ab 50%</td> <td style="text-align: center;">/</td> <td style="text-align: center;">/</td> </tr> <tr> <td>Water ab 50%</td> <td style="text-align: center;">/</td> <td style="text-align: center;">/</td> </tr> <tr> <td>Phenol : &lt;3 %</td> <td style="text-align: center;">108-95-2</td> <td style="text-align: center;">24/25 34</td> </tr> <tr> <td>Formaldehyde : &lt;0.5 %</td> <td style="text-align: center;">50-00-0</td> <td style="text-align: center;">23/24/25-34-40-43</td> </tr> </tbody> </table>	Components	n° CAS	Phrases R	Phenol-Formaldehyde Polymer ab 50%	/	/	Water ab 50%	/	/	Phenol : <3 %	108-95-2	24/25 34	Formaldehyde : <0.5 %	50-00-0	23/24/25-34-40-43
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<p><b>3) HAZARDS IDENTIFICATIONS.:</b></p> <p>- Harmful effects on health :</p> <p>- Harmful effects on environment :</p> <p>- Physical and chemical hazards :</p> <p>- Classification - specific risks :</p>	<p>T : Toxic R 24/25 : Toxic in contact with skin and if swallowed R 34 : Causes burns R 43 : May cause sensitization by skin contact Risk of pollution of water in case of accidental spillage</p> <p>Exothermic reaction with acids Exothermic crosslinking reaction above 100°C</p> <p>T : Toxic (according EEC directives)</p>															
<p><b>4) FIRST AID MEASURES :</b></p> <p>- General indication :</p> <p>- Inhalation :</p> <p>- Skin contact :</p> <p>- Eyes contact :</p> <p>- Ingestion :</p>	<p>Instantly remove any clothing soiled by the product Remove the victim to fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration Wash with water and soap Wash with plenty of water. Can be irritating. Seek medical advice. Wash out mouth immediately with water. Seek medical advice.</p>															
<p><b>5) FIRE FIGHTING MEASURES :</b></p> <p>- Fire fighting :</p> <p>- Specific hazards :</p> <p>- Protective equipments :</p>	<p>Pulverised water - Carbon dioxide Harmful and irritating fumes emission Automatic respiratory apparatus recommended</p>															
<p><b>6) ACCIDENTAL RELEASE MEASURES :</b></p> <p>- Safety precautions for people:</p> <p>- Measures for environmental protection:</p> <p>- Measures for cleaning/collecting :</p> <p style="margin-left: 20px;">* Collecting :</p> <p style="margin-left: 20px;">* Elimination :</p>	<p>Wear a protective equipment, clothes, gloves and goggles Dam up and restrain the spillage Avoid the contamination of sewers and rivers</p> <p>Collect the liquid with liquid binding material (sand - sawdust) Destroy the material by incineration in a licensed incinerator</p>															
<p><b>7) HANDLING AND STORAGE :</b></p> <p>- Handling :</p> <p style="margin-left: 20px;">* Technical measures :</p> <p style="margin-left: 20px;">* Precautions :</p>	<p>No special recommendations Wear gloves and goggles Do not smoke during manufacturing Ensure a good ventilation of the working places, particularly where the crosslinking of the resin take place (emission of fumes)</p>															

**Product : Phenolic resin EXP3G0063L**

<p>- Storage :</p> <ul style="list-style-type: none"> <li>* Technical measures</li> <li>* Recommended storage conditions</li> <li>* Storage conditions to avoid :</li> <li>* Incompatible materials :</li> <li>* Recommended packing materials :</li> </ul>	<p>Resol type resin are ageing during storage Assure a correct stock protection Store in cool conditions, in original closed drums Keep away from heat For alcalin resols avoid sensitive metals, such as aluminium, etc. Polyethylene - Polypropylene – Steel</p>																			
<p><b>8) EXPOSURE CONTROLS AND PERSONAL PROTECTION :</b></p> <p>- Technical measures :</p> <p>- Exposure parameters :</p> <p>- Protective equipments :</p> <ul style="list-style-type: none"> <li>* Breath protection:</li> <li>* Hands protection:</li> <li>* Eyes protection :</li> <li>* Body protection :</li> </ul> <p>- Hygiene measures :</p>	<p>During crosslinking of the resin by heat, there is an emission of fumes (water, phenol, etc.) Ensure good ventilation/exhaustion at the work place</p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">FRANCE</th> <th>GERMANY</th> <th>USA ACGIH</th> </tr> <tr> <th>VME</th> <th>VLE</th> <th>MAK</th> <th>TLV</th> </tr> </thead> <tbody> <tr> <td>Formol n° CAS 50-00-0</td> <td>0,5 ppm 0,6 mg/m<sup>3</sup></td> <td>1 ppm 1,2 mg/m<sup>3</sup></td> <td>0.3 ppm 0.37 mg/m<sup>3</sup></td> <td>0.3 ppm 0.37 mg/m<sup>3</sup></td> </tr> <tr> <td>Phenol n° CAS 108-95-2</td> <td>5 ppm 19 mg/m<sup>3</sup></td> <td>/ /</td> <td>5 ppm 19 mg/m<sup>3</sup></td> <td>5 ppm 19 mg/m<sup>3</sup></td> </tr> </tbody> </table> <p>No special requirement Wear PVC or other plastic materials gloves Wear goggles If risk of splash, wear a protective cloth Do not eat and do not smoke during the use of the resin</p>		FRANCE		GERMANY	USA ACGIH	VME	VLE	MAK	TLV	Formol n° CAS 50-00-0	0,5 ppm 0,6 mg/m <sup>3</sup>	1 ppm 1,2 mg/m <sup>3</sup>	0.3 ppm 0.37 mg/m <sup>3</sup>	0.3 ppm 0.37 mg/m <sup>3</sup>	Phenol n° CAS 108-95-2	5 ppm 19 mg/m <sup>3</sup>	/ /	5 ppm 19 mg/m <sup>3</sup>	5 ppm 19 mg/m <sup>3</sup>
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<p><b>9) PHYSICAL AND CHEMICAL PROPERTIES :</b></p> <p>- Physical aspect</p> <p>- Form :</p> <p>- Colour :</p> <p>- pH :</p> <p>- Decomposition temperature :</p> <p>- Flash point :</p> <p>- Ignition temperature :</p> <p>- Explosivity datas :</p> <p>- Density :</p> <p>- Solubility :</p>	<p>Liquid Liquid Reddish 8 – 9 About 300°C &gt; 300°C Product not self igniting(&gt;500°C) Product not explosive / Soluble in water</p>																			
<p><b>10) STABILITY AND REACTIVITY</b></p> <p>- Stability :</p> <p>- Dangerous reactions :</p> <p>- Dangerous products of decomposition</p>	<p>Resol type resin are ageing during storage. They are not stable At high temperature (&gt;80°C) crosslinking reactions occur with an exothermic effect Dangerous reactions with acids, a cross linking reaction may happen, also with exothermic effect The decomposition begins at about 300°C Between 300 &amp; 600°C emission of gaseous products H<sub>2</sub>O - CO - CO<sub>2</sub> - Methane - Phenols - Cresols - Xylenols The total oxydation will give H<sub>2</sub>O - CO - CO<sub>2</sub></p>																			
<p><b>11) TOXICOLOGICAL INFORMATIONS :</b></p> <p>- Acute Toxicity :</p> <p>- Primary irritant effect - sensitization :</p> <ul style="list-style-type: none"> <li>* on the skin :</li> <li>* on eyes :</li> <li>* sensitization :</li> </ul> <p>- Chronic toxicity - long term toxicity :</p>	<p>DL 50 orl/rat : &gt; 5000 mg/kg</p> <p>Caustic effect on skin and mucous membranes Strong caustic effect Risk of sensitizing effect Swallowing will lead to a caustic effect on mouth and throat</p>																			

**Product : Phenolic resin EXP3G0063L**

<b>12) <u>ECOLOGICAL INFORMATION</u></b> - Mobility : - Persistence - degradability : - Ecotoxicity :	Do not allow product to reach ground water or sewage system Highly diluted solutions of phenol and formaldehyde are biodegradable. Higher concentration can be fatal for the aquatic life. For phenol only : CE 50 (Daphnia magna) /24 h : 29 mg/l CL 50 (fish : Pimephales promelas)/ 48h : 11.6 mg/l For formol only : Concentrations between 50 - 200 mg/l destroy the superior aquatic life (Guppies). Concentrations between 1 - 2 mg/l disturb the growing up of bacterias, algae and other micro organisms (E. coli, Scenedesmus).
<b>13) <u>DISPOSAL CONSIDERATIONS:</u></b> -Product : * Interdiction : * Destruction/elimination : - Uncleaned packagings : * Destruction/elimination : - Remarks :	Do not remove in sewer and in natural environment Incinerate in a licensed incinerator  Empty contaminated packaging can be recycled after proper cleaning Recommended cleaning agent : diluted caustic solution Remove according local authority recommendations for the elimination of industrial wastes
<b>14) <u>TRANSPORT INFORMATION</u></b>	No dangerous regarding the legislation for the transportation of hazardous goods
<b>15) <u>REGULATORY INFORMATION</u></b> - Code letter and hazard designation of product : - Hazard determining components of labelling : - Risk phrases :  - Safety phrases :	Labelling according EEC legislation about dangerous substances  T : Toxic Phenol  R 24/25 : Toxic in contact with skin and if swallowed R 34 : Causes burns R 43 : May cause sensitization by skin contact S 28 : After contact with skin, wash immediately with plenty of water S 45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
<b>16) <u>OTHER INFORMATION</u></b> :	This safety data sheet is a complement for the technical data sheet but does not replace it. These informations are based on our present knowledge of the product. They are given in good faith. The users have to take into consideration the eventual risk when they are using the material for an other use than this one intended. The users have also to know and apply the authority recommendations according their activity. The users are responsible for taking all necessary precautions in the use of the product.



# Safety data sheet

## Exterior Wood Oil Exclusive

### 1. Identification of the substance/preparation and of the company/undertaking

Prepared on: 19-11-2008/ LFH	Distributor: <b>WOODCARE DENMARK A/S</b> Havnevej 17 9560 Hadsund
<b>Product use</b> Exterior Wood Oil	<b>Tel:99585600 Fax:99585634</b> <b>Emergency telephone number: +45 99585600</b> <b>The emergency telephone is open between 8 a.m. and 4 p.m. on workdays.</b> <b>Contact person:Simon Greve</b> <b>Email: info@ttwoodcare.com</b>

### 2. Hazards identification

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Additional information</b> Persons with a known allergy to Propiconazole or cobalt(2+) salts may exhibit an allergic response to the product.

### 3. Composition/information on ingredients

Einecs no.	CAS No.	Substances	Classification	w/w%	
259-627-5	55406-53-6	3-iodo-2-propynyl butylcarbamate	Xn;R20/22- R41 N;R50	<0,2	-
262-104-4	60207-90-1	Propiconazole	Xn;R22 R43 N;R50/53	<0,5	-
265-185-4	64742-82-1-c	Naphtha (petroleum), hydrodesulfurized heavy	R10 Xn;R65 R66 R67 N; R51/53	<0,2	4
	68409-81-4-a	Fatty acids, C9-19-branched, cobalt(2+) salts	Xi;R38,R43	<0,7	-

4) R65 is not applicable due to the high viscosity of the product.  
Please see section 16 for the full text of the R-phrases

### 4. First aid measures

<b>Inhalation</b> Seek fresh air.
<b>Ingestion</b> Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
<b>Skin</b> Wash skin with soap and water.
<b>Eyes</b> Rinse immediately with water (preferably using eye wash) for at least 5 minutes. Open eyes wide. Remove any contact lenses.
<b>Other information</b> When obtaining medical advice, show the safety data sheet or label. Symptoms: See section 11.

### 5. Fire-fighting measures

Extinguish with powder, foam, carbon dioxide or water mist. Do not use water stream, as it may spread the fire. Use water or water mist to cool non-ignited stock. Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air.

### 6. Accidental release measures

Prevent spillage from entering drains and/or surface water.

### 7. Handling and storage

#### Handling

See section 8 for information about precautions for use and personal protective equipment.

#### Storage

There are no special storage requirements but the product should be stored safely, out of reach of children and not together with food, animal feeding stuffs, medicines, etc.

### 8. Exposure controls/ personal protection

#### Precautions for use

Use the product under well-ventilated conditions.

#### Respiratory protection

Not required.

#### Gloves and protective clothing

Wear protective gloves made of nitrile rubber,

#### Eye protection

Wear safety goggles if there is a risk of eye splash.

#### Occupational exposure limits

Contains no substances subject to reporting requirements.

### 9. Physical and chemical properties

State: Liquid

Density: - g/ml 1

## 10. Stability and reactivity

The product is stable when used in accordance with the supplier's directions.

## 11. Toxicological information

### **Acute**

#### **Inhalation**

Inhalation of vapours may cause irritation to the upper airways.

#### **Ingestion**

Ingestion may cause discomfort.

#### **Skin contact**

Irritating to skin – may cause reddening.

#### **Eye contact**

May cause eye irritation.

#### **Risk of sensitization**

The product contains small quantities of Propiconazole or cobalt(2+) salts. Persons with stated allergy may react to the product.

#### **Long-term effects**

None known.

## 12. Ecological information

Do not discharge large quantities of concentrated spills and residue into drains.

## 13. Disposal considerations

Collect spills and waste in closed and sealed containers and send to the local disposal facility for chemical waste.

## 14. Transport information

The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

## 15. Regulatory information

### Hazard designation:

#### R-phrases

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. (R52/53)

#### Other labelling

Contains Propiconazole and cobalt(2+) salts. May produce an allergic reaction.

#### Volatile organic compounds (VOC):

This product contains a maximum of 70 g VOC/L. The limit value is 150 g VOC/L (cat. A/-)

#### Chemical safety assessment

Chemical safety assessment has not been performed.

## 16. Other information

### Restrictions on use

None.

### Training requirement

No special training is required, but a thorough knowledge of this safety data sheet should be a prerequisite condition.

### Sources used

#### Other information

This safety data sheet was prepared from information provided by the supplier about physical/chemical properties and all ingredients in the product.

#### Full text of the R-phrases that are stated in section 3.

R10 Flammable.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R41 Risk of serious damage to eyes.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.



Product Name: Decking Oil

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Date of revision: July 7<sup>th</sup> 2004

## SAFETY DATA SHEET

GB

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product Name:** Decking Oil  
**Product Category:** Oil based wood care product.

**PR-no:**

**Manufacturer:**

TT WoodCare A/S  
Havnevej 17  
9560 Hadsund  
Telephone no.: +45 99 58 56 00  
Fax no.: +45 99 58 56 34

**Emergency telephone number :**

The doctor may contact the  
Danish Poisons Information  
Center by calling:

+45 35 31 60 60

**Uses:**

Oil treatment of wooden floors.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Hazardous compounds in accordance with EC Directives 1999/45/EEC; 2001/59/EEC (symbol and R-phrases are stated for the pure compound). Any volatile compounds are stated in item 8 in units of ppm.

**Contains:**

CAS number:	EU-number:	%:	Chemical Name:	Hazard symbols:	R phrases:	Note:	Note:
90622-58-5	292-460-6	> 50%	Alkanes C11-15	Xn	R65, R66	Ae, H, N	
731-27-1	211-986-9	< 1%	tolylfluaniid	T, Xn, Xi, N	R23, R36/37/38, R43, R48/20, R50/53	Ae	
		< 0,2%	Cobolt compounds ( org.)	Xn	R22, R38, R43		

### 3. HAZARDS IDENTIFICATION:

**Main Toxicological and Ecological hazards:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Contains: 2-Butanonoxim, Coboltoctoate, Tolyfluaniid. May cause allergic reactions. Contains drying oils. Risk of self-ignition. After spills and used cloths, etc. have been recovered, store in fireproof waste disposal containers before destroying.

**Symptoms: -**

### 4. FIRST AID MEASURES:

**General information:**

If in doubt, seek medical advice. Also see para. 1

**Inhalation:**

Move the person into fresh air. If necessary, seek medical attention.

**Contact with eyes:**

If necessary, remove contact lenses. Bend the head backwards and immediately flush with water for 10 minutes. Hold eyelids wide apart. Seek medical attention.

**Contact with skin:**

Remove contaminated clothes immediately, and wash skin thoroughly with soap and water. Skin cleaner may be used. Do not use organic solvents or thinners.

**Ingestion:**

Do NOT induce vomiting. If vomiting occurs, hold head low to prevent aspiration of liquid into lungs. Obtain medical help or ambulance.

**Burns:**

Flush with plenty of water until pain ceases. Whilst flushing with water, remove all loose clothing from area of burns. If medical treatment is necessary, continue rinsing until a doctor takes over the treatment.

### 5. FIRE-FIGHTING MEASURES:

**Suitable extinguishing media:**

Extinguish fire with foam, carbon dioxide, powder, or water vapor.

**Extinguishing media that must not be used:**

Do not use a water jet as it spreads the fire.



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**Special hazards: -**

**General information:**

Cool closed containers with water.

**6. ACCIDENTAL RELEASE MEASURES:**

**Personal precautions:**

See protection measures in item 7 and 8.

**Environmental precautions:**

If lakes, waterways or drains become contaminated, inform the environmental authorities.

**Methods for cleaning up:**

If spillage occurs, prevent material from entering drains or water courses. Recover spill with non-flammable, absorbent material, e.g. sand, dirt, or granular substances and place in a disposable container (see item 13). Clean preferably with cleansing agents. Avoid using solvents.

**General information:**

Remove all ignition sources and ensure sufficient ventilation. Please be aware of the risk of fire and explosion.

**7. HANDLING AND STORAGE:**

**Handling:**

Avoid using this product in small, closed spaces. Provide sufficient ventilation by e.g. opening windows and doors. Avoid contact with eyes and skin.. Avoid contact with eyes and skin. Personal protective equipment: Refer to section 8. Do not eat, drink, smoke or store tobacco, food or drink in work places or areas where there is a risk of contact with the product.

**Storage:**

Opened containers must be carefully closed and stored upright to prevent any leakage. Contains drying oils. Risk of self-ignition. After spills and used cloths, etc. have been recovered, store in fireproof waste disposal containers before destroying.

**Specific Environmental Protection Precautions: -**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION:**

**Engineering Control Measures:**

All work must be planned with a view to limit the breathing of fumes and the exposure to the skin.

**Respiratory Protection:**

If application is done by brushing, there are no demands.

**Hand Protection:**

Use nitrile protection gloves. A 15-mil thickness glove provides a 8 hours breakthrough-time. Follow the glove manufacturer's recommendations on use and replacement.

**General information:**

Prevent employee exposure to substances which may be hazardous by pregnancy or breast feeding.

**Occupational Exposure Limits:**

The specified exposure limit values are in accordance with the Danish National Working Environment Authority's list of recommended Exposure Limit Values.

<b>CAS:</b>	<b>Substance:</b>	<b>Occupational Exposure Limits:</b>	<b>Notes:</b>
90622-58-5	Alkanes C11-15	25 ppm	

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Form:</b>	Liquid
<b>Flash point:</b>	> 62
<b>Density:</b>	0,82
<b>Fire class</b>	III - 1
<b>Explosion limits:</b>	0,7 - 5
<b>Weight % organic solvents:</b>	67
<b>VOC content (grams / liter):</b>	549

**10. STABILITY AND REACTIVITY:**

**Stability: -**

**Conditions to avoid:**

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

**Substances to avoid:**

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

**Harzardous Decomposition Products: -**

**Hardening times for Epoxy- resins and Isocyanates. -**



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**11. TOXICOLOGICAL INFORMATION:**

**Inhalation:**

Vapors from this product may be irritating and may cause head ache. Prolonged and repeated inhalation of high concentrations may cause damage to liver, kidneys, brain and nervous system.

**Contact with skin:**

Organic solvents have a degreasing effect on the skin. Repeated and/or prolonged contact with this product may cause inflammation and irritation. Organic solvents may be absorbed through skin.

**Contact with eyes:**

Eye irritation. Splashes in the eye may cause irritation.

**Ingestion:**

Chemical pneumonia may occur if organic solvents enter the lungs through vomiting. Accidental swallowing may cause vomiting and stomach pains.

**Chronic effects: -**

**General information:**

Contains cobalt octoate, which is included in the Danish National Working Environment Authority's list of substances and processes considered to be carcinogenic. Cobalt compounds are classified by IARC ( International Agency for Research on Cancer) in category 2B (substances which may be carcinogenic to humans). Inhalation tests on animals involving some inorganic cobalt compounds in the form of dust have shown a connection between exposure to the substance and the occurrence of cancer. Tests on animals involving cobalt compounds (including some cobalt siccatives) has not proved a connection between exposure to the substances and the occurrence of cancer.

**12. ECOLOGICAL INFORMATION:**

**Ecotoxicity:**

Do not dispose of this product in drains, watercourses, or on the ground.

**Mobility: -**

**Degradability: -**

**Accumulation: -**

**Additional hazards: -**

**General information:**

This product is classified as hazardous to the environment according to the calculation method in the Notification on Classification, Labeling, etc. of chemical substances and products. Please see par. 2 and 15 for further information.

*tolyfluanid*

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**LogPow:**

**13. DISPOSAL CONSIDERATIONS:**

**Disposal considerations:**

Product residues are classified as chemical waste. Waste receptacles must be labeled with black text on yellow background: "Contains a substance which is affected by the Danish work environmental legislation, on account of a risk of cancer". Contains drying oils. Risk of self-ignition. After spills and used cloths, etc. have been recovered, store in fireproof waste disposal containers before destroying.

**Waste code:**

08 01 11

waste paint and varnish containing organic solvents or other dangerous substances

**14. TRANSPORT INFORMATION:**

The product is not comprised by transport regulations of dangerous goods.

**15. REGULATORY INFORMATION:**

**General information:**

In accordance with the EC Directives 1999/45/EEC; 2001/59/EEC Statutory Order on classification, packaging, labelling, sale and storage of chemical substances and products the product is marked as follows:

**Labelling:**



Product Name: Decking Oil

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Dispose of this material and its container at hazardous or special waste collection point.

**Special labelling:**

Contains: 2-Butanonoxim, Coboltoctoate, Tolyfluanid. May cause allergic reactions. Contains drying oils. Risk of self-ignition. After spills and used cloths, etc. have been recovered, store in fireproof waste disposal containers before destroying.

**Uses and Restrictions:**

Not to be handled by individuals under the age of 18 years, according to Danish Ministry of Employment's ministerial order No. 516 of 14th June 1996, concerning young people in employment.

**Special Education: -**

**16. OTHER INFORMATION:**

R22	Harmful if swallowed.
R23	Toxic by inhalation.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R36/37/38	Irritating to eyes, respiratory system and skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**General information:**

Due to the cobalt compounds, the products fall under chapter 2 of the Danish National Working Environment Authority's regulations concerning the prevention of cancer when working with substances and materials.

**Training advice: -**

**Final remarks:**

The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

**References: -**

**Corrections:**

Item 1

Drawn up by: GK

1. issue: 2003

Updated by: gk