

Material Safety Data Sheet According to 91/155/EC		
1. <u>Identification of the substance/preparation and of the company/undertaking</u>		
<ul style="list-style-type: none"> ▪ Produkt details: HABiol ▪ Manufacturer/Supplier: Armbruster Handelsgesellschaft mbH Strutstrasse 34 D-73614 Schorndorf-Schlichten Tel. 0049-7181-4 76 76 4 Fax. 0049-718-4 76 76 5 		
2. <u>Composition/information on ingredients</u>		
<ul style="list-style-type: none"> ▪ Discription: Mixture of substances listed below with nonhazardous additions. ▪ Dangerous components: 		
CAS-NO.	Description Indax R-phrases	%
64742-47-8 N Xn	Distillates (petroleum), hydrotreated light EINECS: 265-149-8	12,50-25,00
64742-88-7 Xn	Solvent naphtha (petroleum), medium aliph EINECS: 265-191-7	12,50-25,00
107-98-2	1-methoxy-2-propanol EINECS: 203-539-1	1,25- 2,50
1330-20-7 Xn	xylene (mix) EINECS: 215-535-7	1,25- 2,50
64742-48-9 Xn	10-20/21-38 Naphtha (petroleum), hydrotreated heavy EINECS: 265-150-3	0,00- 1,25
	10-65	
3. <u>Hazards identification</u>		
<ul style="list-style-type: none"> ▪ Hazard description: Not applicable ▪ Information concerning particular hazards for human and anviroment: R 10 Flammable ▪ Classification system: The classification is according to the latest edition of the EU-List, and extended by company and literature date. 		
4. <u>First-aid measures</u>		
<ul style="list-style-type: none"> ▪ After inhalation: Supply fresh air or oxygen ▪ After skin contact: Immediately wash with water and soap and rinse thoroughly ▪ After eye contact: Rinse opened eye for several minutes under running water ▪ After swallowing: Do not induce vomiting; call for medical help immediately 		

<p>5. Fire-fighting measures</p> <ul style="list-style-type: none"> ▪ Suitable extinguishing agents:: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. ▪ For safety reasons unsuitable extinguishing agents: Water with full jet ▪ Special hazards caused by the substance, its products of combustion or resulting gases: Formation of toxic gases is possible during heating or in case of fire ▪ Protective equipment: Mount respiratory protective device ▪ Additional information: F Cool endangered receptacles with water spray Collect contaminated fire fighting water separately. It must not enter the sewage system 																																																												
<p>6. Accidental release measures</p> <ul style="list-style-type: none"> ▪ Person-related safety precautions: Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation ▪ Measures for environmental protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water ▪ Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) 																																																												
<p>7. Handling and storage</p> <ul style="list-style-type: none"> ▪ Handling: Information for safe handling: Take note of emission threshold. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air) ▪ Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. ▪ Storage: ▪ Requirements to be met by storerooms and receptacles: Store only in the original receptacle. ▪ Information about storage in one common storage facility: Not required ▪ Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight. 																																																												
<p>8. Exposure controls/personal protection</p> <ul style="list-style-type: none"> ▪ Ingredients with limit values that require monitoring at the workplace:: ▪ Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten: <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CAS-NO.</th> <th style="text-align: left;">Designation of material</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>107-98-2</td> <td>1-methoxy-2-propanol</td> <td></td> <td></td> </tr> <tr> <td colspan="4">OEL</td> </tr> <tr> <td></td> <td>Short-term value</td> <td>1120</td> <td>mg/m³</td> </tr> <tr> <td></td> <td></td> <td>300</td> <td>ppm</td> </tr> <tr> <td></td> <td>Long-term value</td> <td>375</td> <td>mg/m³</td> </tr> <tr> <td></td> <td></td> <td>100</td> <td>ppm</td> </tr> <tr> <td colspan="4">Sk</td> </tr> <tr> <td>1330-20-7</td> <td>xylene (mix)</td> <td></td> <td></td> </tr> <tr> <td colspan="4">OEL</td> </tr> <tr> <td></td> <td>Short-term value</td> <td>662</td> <td>mg/m³</td> </tr> <tr> <td></td> <td></td> <td>150</td> <td>ppm</td> </tr> <tr> <td></td> <td>Long-term value</td> <td>441</td> <td>mg/m³</td> </tr> <tr> <td></td> <td></td> <td>100</td> <td>ppm</td> </tr> <tr> <td colspan="4">Sk</td> </tr> </tbody> </table>	CAS-NO.	Designation of material			107-98-2	1-methoxy-2-propanol			OEL					Short-term value	1120	mg/m ³			300	ppm		Long-term value	375	mg/m ³			100	ppm	Sk				1330-20-7	xylene (mix)			OEL					Short-term value	662	mg/m ³			150	ppm		Long-term value	441	mg/m ³			100	ppm	Sk			
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- **Additional information:**
The lists valid during the making were used as basis.
- **Personal protective equipment:**
General protective and hygienic measures:
- **The usual precautionary measures are to be adhered to when handling chemicals:**
Do not eat or drink while working.
Be sure to clean skin thoroughly after work and before breaks.
- **Respiratory protection:**
Suitable respiratory protective device recommended. Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
Impervious gloves
- **Eye protection:** Safety glasses Tightly sealed goggles
Body protection: Protective work clothing

9. Physical and chemical properties

Appearance:

Form:	Liquid
Colour:	Colourless
Odour:	Solvent-like

Change in condition:

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	36,0 °C
Ignition temperature:	Undetermined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower:	0,50 Vol %
Upper:	6,50 Vol %
Vapour pressure:	at 20,00 °C 5,00 mbar
Density:	0,8630 g/cm ³

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Viscosity:

Kinematic:	at 23,00 °C 18,00 - 21,00 s DIN 4 mm
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Solvent content:

Organic solvents:	53,00 %
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10. Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous decomposition products:**
No dangerous decomposition products known.

11. Toxicological information

- **Acute toxicity::**
- **LD/LC50 values relevant for classification:**

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral, LD50: >6500 (rat)
 Dermal, LD50: >3000 (Rabbit)
 Inhalative, LC50/4h: >14 (rat)

107-98-2 1-methoxy-2-propanol

Oral, LD50: 5000 (rat)
 Dermal, LD50: 13500 (Rabbit)
 Inhalative, LC50/4h: 6 (rat)

1330-20-7 xylene (mix)

Oral, LD50: 8700 (rat)
 Dermal, LD50: 2000(Rabbit)
 Inhalative, LC50/4h: 6350 (rat)

96-29-7 2-butanone oxime

Oral, LD50: 3700 (rat)
 Dermal, LD50: 200-2000 (rat)
 Inhalative, LC50/4h: 20 (rat)

71-36-3 butanol

Oral, LD50: 790 (rat)
 Dermal, LD50: 3400 (Rabbit)
 Inhalative, LC50/4h: 8000 (rat)

100-41-4 ethylbenzene

Oral, LD50: 3500 (rat)
 Dermal, LD50: 17800 (Rabbit)

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral, LD50: >5000 (rat)
 Dermal, LD50: >3000 (Rabbit)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral, LD50: 5660 *** (rat)
 Dermal, LD50: 4000 *** (Rabbit)

Primary irritant effect:

on the skin:

No irritant effect.

on the eye:

No irritating effect.

Sensitization:

No sensitizing effects known.

12. Ecological information

- **Additional ecological information:**

General notes:

Water hazard class 1 (German Regulation) (#): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations

- **Product:**

- **Waste disposal key:**

55508 Paint material
 waste disposal indications
 special waste burn

- **European waste catalogue**

08

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 01

wastes from MFSU and removal of paint and varnish

<p>08 01 11 waste paint and varnish containing organic solvents or other dangerous substances</p> <ul style="list-style-type: none"> ▪ Waste disposal key (CH): 1620 Painting, lacquer and adhesive wastes with organic phase (with solvents) ▪ Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. 																												
<p>14. <u>Transport information</u></p> <ul style="list-style-type: none"> ▪ Land transport ADR/RID (cross-border) <table data-bbox="279 548 1348 705"> <tr><td>ADR/RID class:</td><td>3 Flammable liquids.</td></tr> <tr><td>Danger code (Kemler):</td><td>30</td></tr> <tr><td>UN-Number:</td><td>1263</td></tr> <tr><td>Packaging group:</td><td>III</td></tr> <tr><td>Description of goods:</td><td>1263 PAINT, SPECIAL PROVISION 640E</td></tr> </table> ▪ Maritime transport IMDG: <table data-bbox="279 728 941 884"> <tr><td>IMDG Class:</td><td>3</td></tr> <tr><td>UN Number:</td><td>1263</td></tr> <tr><td>Packaging group:</td><td>III</td></tr> <tr><td>EMS Number:</td><td>F-E,S-E</td></tr> <tr><td>Proper shipping name:</td><td>PAINT</td></tr> </table> ▪ Air transport ICAO-TI and IATA-DGR: <table data-bbox="279 907 941 1041"> <tr><td>ICAO/IATA Class:</td><td>3</td></tr> <tr><td>UN/ID Number:</td><td>1263</td></tr> <tr><td>Packaging group:</td><td>III</td></tr> <tr><td>Proper shipping name:</td><td>PAINT</td></tr> </table> 	ADR/RID class:	3 Flammable liquids.	Danger code (Kemler):	30	UN-Number:	1263	Packaging group:	III	Description of goods:	1263 PAINT, SPECIAL PROVISION 640E	IMDG Class:	3	UN Number:	1263	Packaging group:	III	EMS Number:	F-E,S-E	Proper shipping name:	PAINT	ICAO/IATA Class:	3	UN/ID Number:	1263	Packaging group:	III	Proper shipping name:	PAINT
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<p>15. <u>Regulatory Information</u></p> <ul style="list-style-type: none"> ▪ Labelling according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. Risk phrases: R 10 Flammable. Safety phrases: S 51 Use only in well-ventilated areas. Special labelling of certain preparations: Contains 2-butanone oxime. May produce an allergic reaction. ▪ National regulations: Classification according to VbF: All Technical instructions (air): Class Share in % III 48,97 II 1,80 Waterhazard class: Water hazard class 1 (#): slightly hazardous for water. Self-assessment ▪ Further information BAGT-Number 619000 																												
<p>16. <u>Other information</u></p> <p>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.</p> <ul style="list-style-type: none"> ▪ Relevant R-phrases R 10 Flammable. R 65 Harmful: may cause lung damage if swallowed. R 20/21 Harmful by inhalation and in contact with skin. R 38 Irritating to skin. ▪ Department issuing MSDS: Environment protection department. 																												