

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 1 Schwarz (Black)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 1 Schwarz (Black)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Black 7 in aqueous dispersion containing diethylene glycol

HAZARDOUS INGREDIENTS:

Amines, soya-alkyl-			
Concentration:	0,71 - 1,42 %		
CAS number:	61790-18-9		
EINECS number:	263-112-0		
Hazard symbols:	C	N	
R phrases:	22	35	50
Ethoxylated oleyl alcohol			
Concentration:	12,8 – 15,1 %		
CAS number:	9004-98-2		
Hazard symbols:	Xn		
R phrases:	22	41	
Diethylene glycol			
Concentration:	8,9 – 10,0 %		
CAS number:	111-46-6		
EINECS number:	203-872-2		
Hazard symbols:	Xn		
R phrases:	22		

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

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AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

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HYGIENE MEASURES:	Keep away from food and drinks. Wash hands before breaks and after work. Use barrier skin cream. Remove soiled or soaked clothing immediately and clean thoroughly before using again.
HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	black
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,23 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 7,3 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 900 mPa.s (20°C)
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant (Rabbit) Method: FDA-guideline Source: Hoechst
IRRITANT EFFECT ON EYES:	non-irritant (Rabbit-eye) Method: OECD 405 Source: Hoechst

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12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:	Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
UNCLEANED PACKAGING:	Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR:	not restricted
RID:	not restricted
ADNR:	not restricted
IMDG:	not restricted
IATA:	not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:	Hazard warning labelling not compulsory.
SPECIFIC LABELLING OF CERTAIN PREPARATIONS:	Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:	
22	Harmful if swallowed.
35	Causes severe burns.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 2 Umbra (Umber)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 2 Umbra (Umber)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

Water/Glycol based dispersion of pigments in organic polymers

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol-		
Concentration:	3,5 – 4,3 %	
CAS number:	9004-98-2	
Hazard symbols:	Xn	
R phrases:	22	41
Ethoxylated oleyl alcohol 6 – 15 EO		
Concentration:	< 4,5 %	
Hazard symbols:	Xn	
R phrases:	22	41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

Trade name: MIXOL No. 2 Umbra (Umber)

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AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Metal oxides

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Trade name: MIXOL No. 2 Umbra (Umber)

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HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	greenish
ODOUR:	not specified
BOILING POINT:	> 100° C (1013 hPa)
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,40 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20 °C)
pH-VALUE:	not determined
VISCOSITY (DYNAMIC):	not determined
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (Rabbit-eye) Method: OECD 405 – EEC 92/69,B.5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined

Trade name: MIXOL No. 2 Umbra (Umber)

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REMARKS: Do not allow to enter soil, waterways or waste water.
Classification according to the calculation procedure of the
Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted
RID: not restricted
ADNR: not restricted
IMDG: not restricted
IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22 Harmful if swallowed.
41 Risk of serious damage to eyes.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 3 Oxyd-Rehbraun (Oxide Brown)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
D-73219 KIRCHHEIM/TECK
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Yellow 42, Red 101, Black 33 and Ca-carbonate in aqueous dispersion containing propylene glycol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol
Concentration: 9,5 – 10,7 %
CAS number: 9004-98-2
Hazard symbols: Xn
R phrases: 22 41

Aminemodified epoxy resin
Concentration: 0,1 – 0,2 %
Hazard symbols: Xi
R phrases: 38 41

Poly(oxy-1.2-ethandiyl), alpha-sulfo-omega-(undecyloxy)-, sodium salt, dentritic and linear
Concentration: 0,15 %
CAS number: 109909-39-9
Hazard symbols: Xi
R phrases: 41 52/53

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

Trade name: MIXOL No. 3 Oxyd-Rehbraun (Oxide Brown)

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AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:
carbon monoxide (CO)
carbon dioxide (CO₂)
nitrogen oxides (NO_x)
sulphur dioxide (SO₂)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Trade name: MIXOL No. 3 Oxyd-Rehbraun (Oxide Brown)

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HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	brown
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,73 g/cm ³ (20 °C)
SOLUBILITY IN WATER:	miscible (20 °C)
pH-VALUE:	approx. 8,5 (20 °C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 1000 mPa.s (20°C)

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100 °C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant (rabbit) Method: OECD 404
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Test result of a similar preparation

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

Trade name: MIXOL No. 3 Oxyd-Rehbraun (Oxide Brown)

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13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted

RID: not restricted

ADNR: not restricted

IMDG: not restricted

IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22 Harmful if swallowed.

38 Irritating to skin.

41 Risk of serious damage to eyes.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 4 Oxyd-Rot (Oxide Red)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 4 Oxyd-Rot (Oxide Red)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Red 101 in aqueous dispersion containing polyglycol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol	
Concentration:	9,8 – 11,9 %
CAS number:	9004-98-2
Hazard symbols:	Xn
R phrases:	22 41
Aminemodified epoxy resin	
Concentration:	0,5 – 1,0 %
Hazard symbols:	Xi
R phrases:	38 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

Trade name: MIXOL No. 4 Oxyd-Rot (Oxide Red)

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AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Trade name: MIXOL No. 4 Oxyd-Rot (Oxide Red)

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HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	red
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,58 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
PH-VALUE:	approx. 10 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 1500 mPa.s (20°C)

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

Trade name: MIXOL No. 4 Oxyd-Rot (Oxide Red)

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13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted

RID: not restricted

ADNR: not restricted

IMDG: not restricted

IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

- | | |
|----|---------------------------------|
| 22 | Harmful if swallowed. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
-

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: **MIXOL No. 5 Oxyd-Ocker (Oxide Yellow)**

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 5 Oxyd-Ocker (Oxide Yellow)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Yellow 42 in aqueous dispersion containing 1,2-propanediol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol
Concentration: 7,7 – 8,2 %
CAS number: 9004-98-2
Hazard symbols: Xn
R phrases: 22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.

Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

Trade name: MIXOL No. 5 Oxyd-Ocker (Oxide Yellow)

Page 2

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

- water spray jet
- dry powder
- carbon dioxide
- alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

- Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

- In case of fires, hazardous combustion gases are formed:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Nitrogen oxides (NO_x)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

- Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

- Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

- Take up with absorbent material (eg. sand, kieselguhr, universal binder).
- When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

- When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

- Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

- In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

- Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

- Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

- Keep away from food and drinks.
- Wash hands before breaks and after work.
- Use barrier skin cream.
- Remove soiled or soaked clothing immediately and clean thoroughly before using again.

HAND PROTECTION:

- Nitrile rubber gloves
- Minimum breakthrough time (glove): not determined
- Minimum thickness (glove): not determined
- Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements

EYE PROTECTION:

- Safety glasses

BODY PROTECTION:

- Protective clothing

Trade name: MIXOL No. 5 Oxyd-Ocker (Oxide Yellow)

Page 3

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	yellow
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,73 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 8,0 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 900 mPa.s (20°C)
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:	Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
UNCLEANED PACKAGING:	Packaging that cannot be cleaned should be disposed of as product waste.

Trade name: MIXOL No. 5 Oxyd-Ocker (Oxide Yellow)

Page 4

14. TRANSPORTATION INFORMATION

ADR: not restricted
RID: not restricted
ADNR: not restricted
IMDG: not restricted
IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22 Harmful if swallowed.
41 Risk of serious damage to eyes.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 6 Maisgelb (Maize Yellow)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 6 Maisgelb (Maize Yellow)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Yellow 83 in aqueous dispersion containing propylenglycol.

HAZARDOUS INGREDIENTS:

Poly(oxy)-1,2-ethanediyl), a-isotridecyl-w-hydroxy-, phosphate-

Concentration: 9,3 - 10,0 %
Hazard symbols: Xi N
R phrases: 38 41 51/53

Isotridecanol, ethoxylated (> 5 – 7 EO)

Concentration: 0,9 %
CAS number: 9043-30-5
Hazard symbols: Xn
R phrases: 22 41

Fatty alcohol, ether sulphate, Na-salt

Concentration: 2,0 - 2,7 %
Hazard symbols: Xi
R phrases: 36/38

Ethoxylated oleyl alcohol

Concentration: 8,0 – 9,7%
CAS number: 9004-98-2
Hazard symbols: Xn
R phrases: 22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

Trade name: MIXOL No. 6 Maisgelb (Maize Yellow)

Page 2

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Sulphur dioxide (SO₂)
Hydrogen chloride (HCl)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

Trade name: MIXOL No. 6 Maisgelb (Maize Yellow)

Page 3

HYGIENE MEASURES:	Keep away from food and drinks. Wash hands before breaks and after work. Use barrier skin cream. Remove soiled or soaked clothing immediately and clean thoroughly before using again.
HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	yellow
ODOUR:	not specified
BOILING POINT:	> 100° C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,07 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 7,6 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 900 mPa.s (20°C)

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant (rabbit) Method: OECD 404 Source: Aventis Pharma Deutschland GmbH, ProTox
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 Source: Aventis Pharma Deutschland GmbH, ProTox

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined

Trade name: MIXOL No. 6 Maisgelb (Maize Yellow)

Page 4

ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR:	not restricted
RID:	not restricted
ADNR:	not restricted
IMDG:	not restricted
IATA:	not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

This product contains a diaryl pigment. This product should not be used in polymers if the processing temperature exceeds 200° C because of possible thermal decomposition, which can form eg. Traces of aromatic amines. 3,3'Dichloro-benzidine may be formed at temperatures above.

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 7 Pirolgelb (Canary Yellow)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 7 Pirolgelb (Canary Yellow)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Yellow 73 in aqueous dispersion containing propylenglycol > 1 %

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol
Concentration: 12,5 – 15,0 %
CAS number: 9004-98-2
Hazard symbols: Xn
R phrases: 22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

Trade name: MIXOL No. 7 Pirolgelb (Canary Yellow)

Page 2

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Nitrogen oxides (NO_x)
Carbon dioxide (CO₂)
Hydrogen chloride (HCl)
Carbon monoxide (CO)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

HAND PROTECTION:

Nitrile rubber gloves
Minimum breakthrough time (glove): not determined
Minimum thickness (glove): not determined
Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements

EYE PROTECTION:

Safety glasses

BODY PROTECTION:

Protective clothing

Trade name: MIXOL No. 7 Pirogelb (Canary Yellow)

Page 3

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	yellow
ODOUR:	not specified
BOILING POINT:	> 100° C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,19 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 8,0 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 800 mPa.s (20°C)
IMPACT SENSITIVITY:	Not impact-sensitive

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Methode: OECD 405 – EEC 92/69,B.5 Quelle: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:	Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
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Trade name: MIXOL No. 7 Pirogelb (Canary Yellow)

Page 4

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted
RID: not restricted
ADNR: not restricted
IMDG: not restricted
IATA: not restricted

15. REGULATORY INFORMATION**LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:**

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION**TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:**

22 Harmful if swallowed.
41 Risk of serious damage to eyes.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

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SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 8 Grün (Green)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 8 Grün (Green)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Green 7 in aqueous dispersion containing diethyleneglycol

HAZARDOUS INGREDIENTS:

Diethylene glycol-	
Concentration:	7,6 %
CAS number:	111-46-6
EINECS number:	203-872-2
Hazard symbols:	Xn
R phrases:	22
Ethoxylated oleyl alcohol	
Concentration:	13,6 - 15,4 %
CAS number:	9004-98-2
Hazard symbols:	Xn
R phrases:	22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

Trade name: MIXOL No. 8 Grün (Green)

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AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Nitrous gases (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Hydrogen chloride (HCl)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Trade name: MIXOL No. 8 Grün (Green)

Page 3

HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	green
ODOUR:	not specified
BOILING POINT:	> 80 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,25 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 8,2 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 800 mPa.s (20°C)
IMPACT SENSITIVITY:	Not impact-sensitive
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat (female)) Source: Hoechst
IRRITANT EFFECT ON SKIN:	non-irritant (rabbit) Source: Hoechst
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined

Trade name: MIXOL No. 8 Grün (Green)

Page 4

REMARKS: Do not allow to enter soil, waterways or waste water.
Classification according to the calculation procedure of the
Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted
RID: not restricted
ADNR: not restricted
IMDG: not restricted
IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

OTHER REGULATIONS:

This product is manufactured using a dispersing agent which is not itself an alkylphenol ethoxylate according to its chemical structure. However, the dispersing agent is synthesized from a nonylphenol, so small amounts of nonylphenolethoxylate occur. Observe the requirements of directive 2003/53/EC of 18 June 2003, the 26th Amendment of Directive 76/769/EEC (relating to restrictions on the marketing and use of certain dangerous substances and preparations) and the corresponding national legislation implementing this Directive.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22 Harmful if swallowed.
41 Risk of serious damage to eyes.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 9 Blau (Blue)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 9 Blau (Blue)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Blue 15:3 in aqueous dispersion containing 1,2-propanediol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol
Concentration: 14,1 - 17,6 %
CAS number: 9004-98-2
Hazard symbols: Xn
R phrases: 22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

Trade name: MIXOL No. 9 Blau (Blue)

Page 2

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

HAND PROTECTION:

Nitrile rubber gloves
Minimum breakthrough time (glove): not determined
Minimum thickness (glove): not determined
Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements

EYE PROTECTION:

Safety glasses

BODY PROTECTION:

Protective clothing

Trade name: MIXOL No. 9 Blau (Blue)

Page 3

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	blue
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,17 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 8,5 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 700 mPa.s (20°C)
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:	Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
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Trade name: MIXOL No. 9 Blau (Blue)

Page 4

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted

RID: not restricted

ADNR: not restricted

IMDG: not restricted

IATA: not restricted

15. REGULATORY INFORMATION**LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:**

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION**TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:**

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 10 Rot (Red)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 10 Rot (Red)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Red 112 in aqueous dispersion containing 1,2-propandiol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol	
Concentration:	9,3 – 11,1 %
CAS number:	9004-98-2
Hazard symbols:	Xn
R phrases:	22 41
Arylethylpolyglycoether	
Concentration:	3,8 – 4,2 %
R phrases:	52/53

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

Trade name: MIXOL No. 10 Rot (Red)

Page 2

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

- water spray jet
- dry powder
- carbon dioxide
- alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

- Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

- In case of fires, hazardous combustion gases are formed:

- Nitrous gases (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Hydrogen chloride (HCl)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

- Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

- Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

- Take up with absorbent material (eg. sand, kieselguhr, universal binder).
- When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

- When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

- Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

- In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

- Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

- Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

- Keep away from food and drinks.
- Wash hands before breaks and after work.
- Use barrier skin cream.
- Remove soiled or soaked clothing immediately and clean thoroughly before using again.

HAND PROTECTION:

- Nitrile rubber gloves
- Minimum breakthrough time (glove): not determined
- Minimum thickness (glove): not determined
- Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements

EYE PROTECTION:

- Safety glasses

BODY PROTECTION:

- Protective clothing

Trade name: MIXOL No. 10 Rot (Red)

Page 3

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	red
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,20 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 7,5 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 900 mPa.s (20°C)
FURTHER INFORMATION:	No incompatible Substances known.

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:	Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.
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Trade name: MIXOL No. 10 Rot (Red)

Page 4

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted
RID: not restricted
ADNR: not restricted
IMDG: not restricted
IATA: not restricted

15. REGULATORY INFORMATION**LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:**

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION**TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:**

22 Harmful if swallowed.
41 Risk of serious damage to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

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Trade name: MIXOL No. 11 Violett (Violet)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 11 Violett (Violet)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
73219 KIRCHHEIM/TECK
Germany
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Violet 23 in aqueous dispersion containing propylenglycol > 1%

HAZARDOUS INGREDIENTS:

Aminemodified epoxy resin	
Concentration:	0,78 – 0,98 %
Hazard symbols:	Xi
R phrases:	38 41
Ethoxylated oleyl alcohol	
Concentration:	15,6 - 18,2 %
CAS number:	9004-98-2
Hazard symbols:	Xn
R phrases:	22 41

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

Trade name: MIXOL No. 11 Violet (Violet)

Page 2

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:

Carbon dioxide (CO₂)
Carbon monoxide (CO)
Hydrogen chloride (HCl)
Nitrogen oxides (NO_x)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE

ADVICE ON SAFE HANDLING:

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES:

Observe the usual precautions for handling chemicals.

HYGIENE MEASURES:

Keep away from food and drinks.
Wash hands before breaks and after work.
Use barrier skin cream.
Remove soiled or soaked clothing immediately and clean thoroughly before using again.

Trade name: MIXOL No. 11 Violet (Violet)

Page 3

HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	violet
ODOUR:	not specified
BOILING POINT:	> 100 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,18 g/cm ³ (20° C)
SOLUBILITY IN WATER:	miscible (20° C)
pH-VALUE:	approx. 8,5 (20° C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 900 mPa.s (20°C)

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100° C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Method: OECD 405 – EEC 92/69, B5 Source: Aventis Pharma Deutschland GmbH, Pro Tox (Substance: Ethoxylated oleyl alcohol)

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined
BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

Trade name: MIXOL No. 11 Violet (Violet)

Page 4

13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR: not restricted

RID: not restricted

ADNR: not restricted

IMDG: not restricted

IATA: not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

- | | |
|----|---------------------------------|
| 22 | Harmful if swallowed. |
| 38 | Irritating to skin. |
| 41 | Risk of serious damage to eyes. |
-

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.

SAFETY DATA SHEET



in accordance with 2001/58/EC

Revision Date: 25.05.2007

Trade name: MIXOL No. 12 Tannengrün (Fir Green)

Page 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

TRADE NAME:

MIXOL No. 12 Tanengrün (Fir Green)

USE OF THE SUBSTANCE / PREPARATION:

Industry sector: Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry

Type of use: Colourant preparation

IDENTIFICATION OF THE COMPANY:

MIXOL-PRODUKTE
DIEBOLD GMBH
Postfach 1119
D-73219 KIRCHHEIM/TECK
Phone: 07021 / 950090
Fax: 07021 / 56030

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION:

C.I. Pigment Yellow 42, Yellow 73, Blue 15:3, Green 7, Black 7 and Ca-carbonate in aqueous dispersion containing propylene- and diethylene glycol

HAZARDOUS INGREDIENTS:

Ethoxylated oleyl alcohol	
Concentration:	10,3 – 11,6 %
CAS number:	9004-98-2
Hazard symbols:	Xn
R phrases:	22 41
Diethyleneglycol	
Concentration:	1,9 – 2,1 %
CAS number:	111-46-6
EINECS-number:	203-872-2
Hazard symbols:	Xn
R phrases:	22
Amin, Soja-alkyl	
Concentration:	0,06 – 0,12 %
CAS- number:	61790-18-9
EINECS-Nummer:	263-112-0
Hazard symbols:	C N
R phrases:	22 35 50

3. HAZARDS IDENTIFICATION

According to the present state of knowledge provided this product is handled correctly, there is no danger to humans or the environment.
Keep the product out of the reach of children.

4. FIRST AID MEASURES

GENERAL INFORMATION:

Seek medical assistance if discomfort continues.

AFTER INHALATION:

Remove the casualty into fresh air and keep him calm.

Trade name: MIXOL No. 12 Tannengrün (Fir Green)

Page 2

AFTER CONTACT WITH SKIN:

In case of contact with skin, clean with soap and water.

AFTER CONTACT WITH EYES:

Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

AFTER INGESTION:

Do not induce vomiting.
Seek medical advice immediately.
Show safety data sheet or label.

5. FIRE FIGHTING MEASURES**SUITABLE EXTINGUISHING MEDIA:**

water spray jet
dry powder
carbon dioxide
alcohol-resistant foam

EXTINGUISHING MEDIA THAT MUST NOT BE USED FOR SAFETY REASONS:

Full water jet

SPECIAL HAZARDS FROM THE SUBSTANCE ITSELF ITS COMBUSTION PRODUCTS OR FROM ITS VAPOURS:

In case of fires, hazardous combustion gases are formed:
carbon monoxide (CO)
carbon dioxide (CO₂)
nitrogen oxides (NO_x)
hydrogen chloride (HCl)

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTING:

Use self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES**ENVIRONMENTAL PRECAUTIONS:**

Do not discharge into the drains, surface waters or groundwater.

METHODS FOR CLEANING UP / TAKING UP:

Take up with absorbent material (eg. sand, kieselguhr, universal binder).
When picked up, treat material as prescribed under point 13 "Disposal considerations".

7. HANDLING AND STORAGE**ADVICE ON SAFE HANDLING:**

When used and handled appropriately no special measures are needed.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Observe the general rules of industrial fire protection.

FURTHER INFORMATION ON STORAGE CONDITIONS:

In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

STORAGE STABILITY:

Shelf-life: at least 36 months

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**GENERAL PROTECTIVE MEASURES:**

Observe the usual precautions for handling chemicals.

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HYGIENE MEASURES:	Keep away from food and drinks. Wash hands before breaks and after work. Use barrier skin cream. Remove soiled or soaked clothing immediately and clean thoroughly before using again.
HAND PROTECTION:	Nitrile rubber gloves Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Observe the information of the glove manufacturer on permeability and breakthrough times and other workplace requirements
EYE PROTECTION:	Safety glasses
BODY PROTECTION:	Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	liquid
COLOUR:	green
ODOUR:	not specified
BOILING POINT:	> 80 °C
FLASH POINT:	No flash point – Measure made up to the boiling point
DENSITY:	approx. 1,46 g/cm ³ (20 °C)
SOLUBILITY IN WATER:	miscible (20 °C)
pH-VALUE:	approx. 7,9 (20 °C) aqueous suspension
VISCOSITY (DYNAMIC):	approx. 950 mPa.s (20°C)

10. STABILITY AND REACTIVITY

THERMAL DECOMPOSITION:	> 100 °C with dehydration
HAZARDOUS REACTIONS:	When handled and stored appropriately no dangerous reactions are known.
HAZARDOUS DECOMPOSITION PRODUCTS:	When handled and stored appropriately no dangerous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY:	LD50 > 2.000 mg/kg (rat) Method: 1999/45/EC
IRRITANT EFFECT ON SKIN:	non-irritant Method: 1999/45/EC
IRRITANT EFFECT ON EYES:	non-irritant (rabbit eye) Test result of a similar preparation

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY:	This property is substance specific and cannot be given for the preparations.
FISH TOXICITY:	not determined
DAPHNIA TOXICITY:	not determined
ALGAE TOXICITY:	not determined

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BACTERIA TOXICITY:	not determined
REMARKS:	Do not allow to enter soil, waterways or waste water. Classification according to the calculation procedure of the Dangerous Preparations Directive (1999/45/EC)

13. DISPOSAL CONSIDERATIONS

PRODUCT:

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

UNCLEANED PACKAGING:

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORTATION INFORMATION

ADR:	not restricted
RID:	not restricted
ADNR:	not restricted
IMDG:	not restricted
IATA:	not restricted

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC-DIRECTIVES:

Hazard warning labelling not compulsory.

SPECIFIC LABELLING OF CERTAIN PREPARATIONS:

Material safety data sheet available for professional user upon request.

OTHER REGULATIONS:

This product is manufactured using a dispersing agent which is not itself an alkylphenol ethoxylate according to its chemical structure. However, the dispersing agent is synthesized from a nonylphenol, so small amounts of nonylphenoethoxylate occur. Observe the requirements of directive 2003/53/EC of 18 June 2003, the 26th Amendment of Directive 76/769/EEC (relating to restrictions on the marketing and use of certain dangerous substances and preparations) and the corresponding national legislation implementing this Directive.

16. OTHER INFORMATION

TEXT OF THE R-PHRASES WHICH ARE ALLOCATED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 2 OF THIS SAFETY DATA SHEET:

22	Harmful if swallowed.
35	Causes severe burns.
41	Risk of serious damage to eyes.
50	Very toxic to aquatic organisms.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35g/cm³).

These product informations are based on our present state of our knowledge, information and experience. No responsibility or liability can be assumed for factors lying outside our knowledge and control.

Statements in catalogues and any other written information handed over to customers are in no way to be understood as guarantees as to characteristics and neither as an agreement on the characteristics. The possible purpose of use of the object of delivery is by no means part of the agreed characteristics. All users are responsible for checking that all products used comply with the specific requirements of their intended application.