

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

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

### 1.1. Product identifier

Hesse Dyestuff solution CU 5-54730

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

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	REACHSET 1000
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROC7	Industrial spraying
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	REACHSET 2001
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC11	Non industrial spraying

### 1.3. Details of the supplier of the safety data sheet

#### Producer

Hesse GmbH & Co. KG  
 Warendorfer Strasse 21  
 59075 Hamm  
 Telephone no. +49 (0) 2381 963-00  
 Fax no. +49 (0) 2381 963-849  
 E-mail address rainer.schoenfeld@hesse-lignal.de

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## 2. Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 3	H226
	Skin Sens. 1	H317
	STOT SE 3	H336
	Aquatic chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
 For explanation of abbreviations see section 16.

### 2.2. Label elements

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## Labelling according to regulation (EC) No 1272/2008

### Hazard pictograms



### Signal word

Warning

### Hazard statements

H317 May cause an allergic skin reaction.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.  
 H226 Flammable liquid and vapour.

### Precautionary statements \*\*\*

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P309+P315 IF exposed or if you feel unwell: Get immediate medical advice/attention.

### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 1-methoxy-2-propanol; Acid Yellow 220

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

## 3. Composition/information on ingredients \*\*\*

### Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*

#### 1-methoxy-2-propanol

CAS No.	107-98-2			
EINECS no.	203-539-1			
Registration no.	01-2119457435-35			
Concentration	>= 50			%

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226	
STOT SE 3	H336	Nervous system

#### Acid Black 52

CAS No.	5610-64-0			
EINECS no.	227-029-3			
Concentration	>= 3	< 10		%

Classification (Regulation (EC) No. 1272/2008)

Aquatic chronic 2	H411
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**Acid Yellow 220**

CAS No.	70851-34-2
EINECS no.	274-929-7
Concentration	>= 3 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Eye Irrit. 2	H319
Skin Sens. 1	H317

**Acid Brown 282**

CAS No.	70236-60-1
EINECS no.	274-490-1
Concentration	>= 1 < 3 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic chronic 2	H411
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**Acid Red 407**

CAS No.	72017-66-4
EINECS no.	276-292-0
Concentration	>= 1 < 3 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

**2-methoxypropanol**

CAS No.	1589-47-5
EINECS no.	216-455-5
Concentration	>= 0,1 < 0,3 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226	
Repr. 1B	H360D	
STOT SE 3	H335	Respiratory tract
Skin Irrit. 2	H315	
Eye Dam. 1	H318	

**Further hazardous ingredients**

For explanation of abbreviations see section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

**4. First aid measures****4.1. Description of first aid measures****General information**

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If unconscious place in recovery position and seek medical advice. When symptoms persist or in all cases of doubt seek medical advice. First aider needs to protect himself. Move out of dangerous area.

#### **After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep patient warm and at rest. Consult a physician for severe cases.

#### **After skin contact**

Wash off immediately with soap and plenty of water. Do NOT use solvents or thinners. If skin irritation persists, call a physician.

#### **After eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

#### **After ingestion**

Do NOT induce vomiting. Consult a physician.

### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects. The liquid splashed in the eyes may cause irritation and reversible damage.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Hints for the physician / treatment**

Treat symptomatically.

## **5. Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Non suitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

### **5.2. Special hazards arising from the substance or mixture**

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Vapours may form explosive mixtures with air.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **Other information**

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Standard procedure for chemical fires.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ensure adequate ventilation. Avoid breathing vapours, mist or gas.

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## 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. Contact the proper local authorities.

## 6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated floors and objects thoroughly while observing environmental regulations. Clean with detergents. Avoid solvents. Keep in suitable, closed containers for disposal.

## 6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep containers tightly closed in a dry, cool and well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. When using, do not eat, drink or smoke. Use personal protective equipment. For personal protection see section 8.

#### Advice on protection against fire and explosion

Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread along floors. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Standard procedure for chemical fires.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in an area equipped with solvent resistant flooring. Store at room temperature in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Keep away from oxidising agents and strongly acid or alkaline materials.

#### Storage class according to the Occupation Safety Ordinance:

Flammable.

#### Further information on storage conditions

Protect from frost, heat and sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

### 7.3. Specific end use(s)

See exposure scenario, if available.

## 8. Exposure controls/personal protection

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## 8.1. Control parameters

### Exposure limit values

#### 1-methoxy-2-propanol

List	Directive 2000/39 EG			
Value	375	mg/m <sup>3</sup>	100	ppm(V)
Short term exposure limit	568	mg/m <sup>3</sup>	150	ppm(V)
Skin resorption / sensibilisation: H; Status: 12/2009				

#### 1-methoxy-2-propanol

List	EH40			
Value	375	mg/m <sup>3</sup>	100	ppm(V)
Short term exposure limit	560	mg/m <sup>3</sup>	150	ppm(V)
Skin resorption / sensibilisation: Sk; Status: 03/2013				

#### (2-methoxymethylethoxy)propanol

List	Directive 2000/39 EG			
Value	308	mg/m <sup>3</sup>	50	ppm(V)
Status: 12/2009				

#### (2-methoxymethylethoxy)propanol

List	EH40			
Value	308	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: sk; Status: 03/2013				

### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### 1-methoxy-2-propanol

Type of value	DNEL			
Reference group	Workers (professional)			
Duration of exposure	Long-term			
Route of exposure	inhalative			
Mode of action	Local effects			
Concentration	553,5			mg/m <sup>3</sup>

Type of value	DNEL			
Reference group	Workers (professional)			
Duration of exposure	Long-term			
Route of exposure	Dermal exposure			
Mode of action	systemic effect			
Concentration	50,6			mg/kg/d

Type of value	DNEL			
Reference group	Workers (professional)			
Duration of exposure	Long-term			
Route of exposure	inhalative			
Mode of action	systemic effect			
Concentration	369			mg/m <sup>3</sup>

Type of value	DNEL			
Reference group	Consumers			
Duration of exposure	Long-term			
Route of exposure	Dermal exposure			
Mode of action	systemic effect			
Concentration	18,1			mg/kg/d

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Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	43,9	mg/m <sup>3</sup>

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	systemic effect	
Concentration	3,3	mg/kg/d

**(2-methoxymethylethoxy)propanol**

Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	systemic effect	
Concentration	65	mg/kg/d

Type of value	DNEL	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	310	mg/m <sup>3</sup>

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	systemic effect	
Concentration	15	mg/kg/d

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	systemic effect	
Concentration	37,2	mg/m <sup>3</sup>

Type of value	DNEL	
Reference group	Consumers	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	systemic effect	
Concentration	1,67	mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**1-methoxy-2-propanol**

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Type of value	PNEC	
Type	freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Type	saltwater	
Concentration	1	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	100	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	4,17	mg/kg
Type of value	PNEC	
Type	ground	
Concentration	2,47	mg/kg
Type of value	PNEC	
Type	sewage treatment plants (STP)	
Concentration	100	mg/l

**(2-methoxymethylethoxy)propanol**

Type of value	PNEC	
Type	freshwater	
Concentration	19	mg/l
Type of value	PNEC	
Type	Marine water	
Concentration	1,9	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	190	mg/l
Type of value	PNEC	
Type	sewage treatment plants (STP)	
Concentration	4168	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	70,2	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	7,02	mg/kg



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Type of value	PNEC		
Type	ground		
Concentration	2,74		mg/kg

## 8.2. Exposure controls

### Exposure controls

Apply technical measures to comply with the workplace exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the WEL, suitable respiratory protection must be worn.

### Respiratory protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: Combination filter: A2-P2 (EN 141, 143, 371)

### Skin protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

### Eye/face protection

Safety glasses with side-shields conforming to EN166

### Individual protection measures

Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	liquid
<b>Colour</b>	coloured
<b>Odour</b>	solvent-like
<b>Odour threshold</b>	
Remarks	no data available
<b>pH value</b>	
Remarks	no data available
<b>Melting point</b>	
Remarks	no data available
<b>Freezing point</b>	
Remarks	no data available
<b>Initial boiling point and boiling range</b>	
Value	100 to 195 °C

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**Flash point**

Value 31 °C

**Evaporation rate**

Remarks no data available

**Flammability (solid, gas)**

no data available

**Upper/lower flammability or explosive limits**

Remarks no data available

**Vapour density**

Remarks no data available

**Density**Value 1 to 1 g/cm<sup>3</sup>  
Temperature 20 °C**Solubility in water**

Remarks no data available

**Solubility(ies)**

Remarks no data available

**Partition coefficient: n-octanol/water**

Remarks no data available

**Ignition temperature**

Remarks no data available

**Decomposition temperature**

Remarks no data available

**Viscosity**

Remarks no data available

**Efflux time**Value 20 to 48 s  
Temperature 20 °C  
Method DIN EN ISO 2431 - 3 mm**Explosive properties**

evaluation no data available

**Oxidising properties**

Remarks no data available

**9.2. Other information****Other information**

This information is not available.

**10. Stability and reactivity****10.1. Reactivity**

No conditions to be specially mentioned.

**10.2. Chemical stability**

Stable under normal conditions.

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**10.3. Possibility of hazardous reactions**

To avoid thermal decomposition, do not overheat.

**10.4. Conditions to avoid**

Heat, flames and sparks.

**Decomposition temperature**

Remarks no data available

**10.5. Incompatible materials**

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6. Hazardous decomposition products**Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke. No decomposition if stored and applied as directed.**11. Toxicological information****11.1. Information on toxicological effects****Other information**

No data is available on the product itself.

**12. Ecological information****12.1. Toxicity****General information**

No data is available on the product itself.

**Fish toxicity (Components)****Acid Black 52**

Species	Pimephales promelas (fathead minnow)		
LC50	6,2		mg/l
Duration of exposure	96	h	

**Acid Yellow 220**

Species	Danio rerio (zebra fish)		
LC50	16		mg/l

**Bacteria toxicity (Components)****Acid Yellow 220**

Species	Bacteria		
EC50	>	100	mg/l

**12.2. Persistence and degradability****General information**

No data is available on the product itself.

**12.3. Bioaccumulative potential****General information**

No data is available on the product itself.

**Partition coefficient: n-octanol/water**

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Remarks no data available

## 12.4. Mobility in soil

### General information

No data is available on the product itself.

### Mobility in soil

no data available

## 12.5. Results of PBT and vPvB assessment

### General information

No data is available on the product itself.

## 12.6. Other adverse effects

### General information

No data is available on the product itself.

### General information / ecology

No data is available on the product itself.

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances

EWC waste code 200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.

Try to prevent the material from entering drains or water courses.

#### modified product

EWC waste code 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances

EWC waste code 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

#### Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

#### Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

Empty remaining contents.

Empty containers should be taken to local recyclers for disposal.

## 14. Transport information

### Land transport ADR/RID

#### 14.1. UN number

UN 1263

#### 14.2. UN proper shipping name

PAINT

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**14.3. Transport hazard class(es)**

Class	3
Label	3

**14.4. Packing group**

Packing group	III
Special provision	640E
Limited Quantity	5I
Transport category	3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS	
Tunnel restriction code	D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class	3
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**14.4. Packing group**

Packing group	III
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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**Air transport ICAO/IATA****14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

PAINT

**14.3. Transport hazard class(es)**

Class	3
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**14.4. Packing group**

Packing group	III
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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC**

VOC (EU)	82,36	%	832,7	g/l
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**Non-volatile content**

Value [%]	16,1
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**15.2. Chemical safety assessment**

For this substance / mixture a chemical safety assessment was not carried out.

**16. Other information****Hazard statements listed in Chapter 3**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**CLP categories listed in Chapter 3**

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**Abbreviations**

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG - International Maritime Code for Dangerous Goods

IATA - International Air Transport Association

IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level

NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Economic Cooperation and Development

VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (\*\*). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not

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guarantee certain properties.

## Annex to the extended Safety Data Sheet (eSDS)

### Short title of the exposure scenario

ES001 - Industrial applications: industrial spraying (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROC7	Industrial spraying

## Contributing exposure scenario controlling environmental exposure

### Use

ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix

**Physical form** liquid

### Hazardous ingredients

#### 1-methoxy-2-propanol

CAS No.	107-98-2
EINECS no.	203-539-1
Registration no.	01-2119457435-35
Concentration	>= 50 %

#### Acid Black 52

CAS No.	5610-64-0
EINECS no.	227-029-3
Concentration	>= 3 < 10 %

#### Acid Yellow 220

CAS No.	70851-34-2
EINECS no.	274-929-7
Concentration	>= 3 < 10 %

#### Acid Brown 282

CAS No.	70236-60-1
EINECS no.	274-490-1
Concentration	>= 1 < 3 %

#### Acid Red 407

CAS No.	72017-66-4
EINECS no.	276-292-0
Concentration	>= 1 < 3 %

#### 2-methoxypropanol

CAS No.	1589-47-5
EINECS no.	216-455-5
Concentration	>= 0,1 < 0,3 %

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

**Maximum amount used per time or activity**

Emission days per site: <= 300

**Other relevant operational conditions**

Use: Room temperature  
 Drying and through-curing takes place at ambient temperature or at higher temperatures.  
 Where possible recycling is preferred to disposal or incineration.  
 The product should not be allowed to enter drains, water courses or the soil.  
 Dispose of rinse water in accordance with local and national regulations.

**Waste water**

Do not flush into surface water or sanitary sewer system. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

**Exhaust air**

Keep container closed. Discharge into the environment must be avoided.

**Soil**

Use only in an area equipped with an impervious floor.

**Disposal recommendations for the product**

EWC waste code 080111 - waste paint and varnish containing organic solvents or other dangerous substances  
 200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.  
 Try to prevent the material from entering drains or water courses.

**modified product**

EWC waste code 080113 - sludges from paint or varnish containing organic solvents or other dangerous substances  
 080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Dried residues**

EWC waste code 080112 - waste lacquers and waste paint except those falling under 080111

**Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated by dangerous substances

Empty remaining contents.  
 Empty containers should be taken to local recyclers for disposal.

**Contributing exposure scenario controlling worker exposure (industrial)**

**Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
 PROC7 Industrial spraying

**Physical form**

liquid

**Hazardous ingredients**

**1-methoxy-2-propanol**

CAS No. 107-98-2  
 EINECS no. 203-539-1



Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

Registration no. 01-2119457435-35  
 Concentration >= 50 %

**Acid Black 52**

CAS No. 5610-64-0  
 EINECS no. 227-029-3  
 Concentration >= 3 < 10 %

**Acid Yellow 220**

CAS No. 70851-34-2  
 EINECS no. 274-929-7  
 Concentration >= 3 < 10 %

**Acid Brown 282**

CAS No. 70236-60-1  
 EINECS no. 274-490-1  
 Concentration >= 1 < 3 %

**Acid Red 407**

CAS No. 72017-66-4  
 EINECS no. 276-292-0  
 Concentration >= 1 < 3 %

**2-methoxypropanol**

CAS No. 1589-47-5  
 EINECS no. 216-455-5  
 Concentration >= 0,1 < 0,3 %

**Maximum amount used per time or activity**

Duration of exposure <= 8 h/d  
 Frequency of exposure <= 220 d/a

**Other relevant operational conditions**

Use: Room temperature  
 Drying and through-curing takes place at ambient temperature or at higher temperatures.  
 Read attached instructions before use.

**Product substance and product safety related measures**

Mainly used in closed systems. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Respiratory protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: Combination filter: A2-P2 (EN 141, 143, 371)

**Skin protection**

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye/face protection**

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

Safety glasses with side-shields conforming to EN166

**Individual protection measures**

Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

**Exposure estimation and reference to its source****Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic
Exposure assessment	46,93 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,13
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	dermal, long-term - systemic
Exposure assessment	2,14 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,04
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	187,71 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,51
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	5,49 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,11
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	inhalation, long-term - systemic
Exposure assessment	187,71 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,51
Lead substance	1-methoxy-2-propanol

**Workers (industrial)**

SU	SU3
PROC	PROC13
Assessment method	dermal, long-term - systemic

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

Exposure assessment	13,71	mg/kg/d
Exposure assessment (method)	ESIG GES tool	
Risk characterisation ratio (RCR)	0,27	
Lead substance	1-methoxy-2-propanol	

## Information on estimated exposure and downstream-user guidance

### Guidance for Downstream Users

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.

## Annex to the extended Safety Data Sheet (eSDS)

### Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC11	Non industrial spraying

## Contributing exposure scenario controlling environmental exposure

### Use

ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix

**Physical form** liquid

### Hazardous ingredients

#### 1-methoxy-2-propanol

CAS No.	107-98-2
EINECS no.	203-539-1
Registration no.	01-2119457435-35
Concentration	>= 50 %

#### Acid Black 52

CAS No.	5610-64-0
EINECS no.	227-029-3
Concentration	>= 3 < 10 %

#### Acid Yellow 220

CAS No.	70851-34-2
EINECS no.	274-929-7
Concentration	>= 3 < 10 %

#### Acid Brown 282

CAS No.	70236-60-1
EINECS no.	274-490-1
Concentration	>= 1 < 3 %

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

**Acid Red 407**

CAS No.	72017-66-4				
EINECS no.	276-292-0				
Concentration	>=	1	<	3	%

**2-methoxypropanol**

CAS No.	1589-47-5				
EINECS no.	216-455-5				
Concentration	>=	0,1	<	0,3	%

**Maximum amount used per time or activity**

Emission days per site: &lt;= 250

**Other relevant operational conditions**

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside.

Where possible recycling is preferred to disposal or incineration.

The product should not be allowed to enter drains, water courses or the soil.

Dispose of rinse water in accordance with local and national regulations.

**Waste water**

Do not flush into surface water or sanitary sewer system. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

**Exhaust air**

Keep container closed. Discharge into the environment must be avoided.

**Soil**

Use only in an area equipped with an impervious floor.

**Disposal recommendations for the product**

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances
	200127 - paint, inks, adhesives and resins containing dangerous substances

Where possible recycling is preferred to disposal or incineration.

Try to prevent the material from entering drains or water courses.

**modified product**

EWC waste code	080113 - sludges from paint or varnish containing organic solvents or other dangerous substances
	080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Dried residues**

EWC waste code	080112 - waste lacquers and waste paint except those falling under 080111
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**Disposal recommendations for packaging**

EWC waste code	150110 - packaging containing residues of or contaminated by dangerous substances
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Empty remaining contents.

Empty containers should be taken to local recyclers for disposal.

**Contributing exposure scenario controlling worker exposure (professional)****Use**

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 PROC11 Non industrial spraying

**Physical form** liquid**Hazardous ingredients****1-methoxy-2-propanol**

CAS No. 107-98-2  
 EINECS no. 203-539-1  
 Registration no. 01-2119457435-35  
 Concentration  $\geq$  50 %

**Acid Black 52**

CAS No. 5610-64-0  
 EINECS no. 227-029-3  
 Concentration  $\geq$  3 < 10 %

**Acid Yellow 220**

CAS No. 70851-34-2  
 EINECS no. 274-929-7  
 Concentration  $\geq$  3 < 10 %

**Acid Brown 282**

CAS No. 70236-60-1  
 EINECS no. 274-490-1  
 Concentration  $\geq$  1 < 3 %

**Acid Red 407**

CAS No. 72017-66-4  
 EINECS no. 276-292-0  
 Concentration  $\geq$  1 < 3 %

**2-methoxypropanol**

CAS No. 1589-47-5  
 EINECS no. 216-455-5  
 Concentration  $\geq$  0,1 < 0,3 %

**Maximum amount used per time or activity**

Duration of exposure  $\leq$  8 h/d  
 Frequency of exposure  $\leq$  220 d/a

**Other relevant operational conditions**

Use: Room temperature  
 Drying and through-curing takes place at ambient temperature or at higher temperatures.  
 Volatile organic substances will volatilise into the atmospheric air inside.  
 Read attached instructions before use.

**Product substance and product safety related measures**

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Respiratory protection**

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Recommended Filter type: Combination filter: A2-P2 (EN 141, 143, 371)

**Skin protection**

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

### Eye/face protection

Safety glasses with side-shields conforming to EN166

### Individual protection measures

Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

### Exposure estimation and reference to its source

#### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic
Exposure assessment	262,79 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,71
Lead substance	1-methoxy-2-propanol

#### Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	5,49 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,11
Lead substance	1-methoxy-2-propanol

#### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	37,54 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,1
Lead substance	1-methoxy-2-propanol

#### Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	2,14 mg/kg/d
Exposure assessment (method)	ESIG GES tool

Trade name: Hesse Dyestuff solution CU 5-54730

Version: 14 / GB

Date created/revised: 01.10.2015

Replaces Version: 13 / GB

Print date: 18.12.15

Risk characterisation ratio (RCR)	0,04
Lead substance	1-methoxy-2-propanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	131,4 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,36
Lead substance	1-methoxy-2-propanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	21,43 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,42
Lead substance	1-methoxy-2-propanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	262,79 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,71
Lead substance	1-methoxy-2-propanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	13,71 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,27
Lead substance	1-methoxy-2-propanol

## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.