Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



 Trade name :
 DUOPOL® PU E61 Steel Color

 Revision date :
 12.05.2023

 Print date :
 12.05.2023

3.0.0 (2.0.0)

1. Identification of the substance/mixture and of the company/ undertaking 1.1 Product identifier DUOPOL® PU E61 Steel Color 1.2 Relevant identified uses of the substance or mixture and uses advised against **Relevant identified uses** Coatings and paints, fillers, putties, thinners. The product is intended for professional use. **1.3** Details of the supplier of the safety data sheet Manufacturer/Supplier : MONOPOL AG Oberrohrdorferstrasse 51 Street/P.O.Box : 5442 Fislisbach **Country code/Postal** code/Town/City : +41 56 484 77 77 **Telephone :** +41 56 484 77 99 **Telefax :** info@monopol-colors.ch Contact : 1.4 Emergency telephone number +41 44 251 51 51 2. Hazards identification 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [CLP] Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour. 2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms Flame (GHS02) Signal word Warning **Hazard statements** H226 Flammable liquid and vapour. **Precautionary statements** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P370+P378 In case of fire: Use ... to extinguish. P501 Dispose of contents/container to Additional information P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof [electrical/ventilating/lighting/...] equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. 2.3 Other hazards None 3. **Composition/information on ingredients** 3.2 Mixtures **Hazardous ingredients**

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Trade name : Revision date :	DUOPOL [®] F 12.05.2023	PU E61 Steel Color	Version (Revision) :	3.0.0 (2.0.0)
Print date :	12.05.2023			
SOLVENT NAPH 64742-95-6	THA (PETROLEUM),	LIGHT AROMATIC ; REACH	No. : 01-2119455851-35 ; EC No. : 265-:	199-0; CAS No. :
Weight fractio	n:	≥ 10 - < 15 %		
Classification :	1272/2008 [CLP] :	Asp. Tox. 1 ; H304		

2-METHOXY-1-METHYLETHYL ACETATE ; REACH No. : 01-2119475791-29 ; EC No. : 203-603-9; CAS No. : 108-65-6 Weight fraction : ≥ 5 - < 10 % Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Substance with a common (EC) occupational exposure limit value. XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7 Weight fraction : \geq 1 - < 5 % Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 N-METHYL-2-PYRROLIDONE ; REACH No. : 01-2119472430-46 ; EC No. : 212-828-1; CAS No. : 872-50-4 Weight fraction : < 0.5 % Classification 1272/2008 [CLP] : Repr. 1B ; H360D Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 O220

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

3.3 Additional information

Paint material, solventborne

4. First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

After eye contact

Remove contact lenses, keep eyelids open. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Call a physician in any case! Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed No information available.

4.3 Indication of any immediate medical attention and special treatment needed None

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam Extinguishing powder Carbon dioxide (CO2) Water spray jet

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture Burning produces heavy smoke.

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5.3 Advice for firefighters

Print date :

Special protective equipment for firefighters

12.05.2023

Use suitable breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. See protective measures under point 7 and 8.

6.2 Environmental precautions

Cover drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections

None

7. Handling and storage

7.1 Precautions for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Only use the material in places where open light, fire and other flammable sources can be kept away. Take precautionary measures against static discharges. Wear anti-static footwear and clothing It is recommended to design all work processes always so that the following is excluded: Skin contact Eye contact Do not breathe gas/fumes/vapour/spray. When using do not eat, drink, smoke, sniff. Comply with the health and safety at work laws. For personal protection see Section 8. Respiratory protection necessary at: spray application

Protective measures

Measures to prevent fire

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Always close containers tightly after the removal of product. Never use pressure to empty container. Only allow access to authorised staff. Keep away from sources of ignition - No smoking. Always close containers tightly after the removal of product. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Storage class (TRGS 510) (D): 3

Do not store together with

Do not store together with Acid alkali Oxidizing agent

Further information on storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from sources of ignition - No smoking. Keep in a cool, well-ventilated place. Keep in a cool, well-ventilated place. Comply with the health and saftey at work laws.

7.3 Specific end use(s)

None

8. Exposure controls/personal protection



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8.1	Control parameters	
	Occupational exposure limit	values
	2-METHOXY-1-METHYLETHYL ACETATE ;	
	,	
	Limit value type (country of origin) :	MAK (CH)
	Limit value : Remark :	275 mg/m ³ / 50 ml/m ³ SSC
	Version :	22.02.2021
	Limit value type (country of origin) : Limit value :	STEL(CH) 275 mg/m³ / 50 ml/m³
	Remark :	SSC
	Version :	22.02.2021
	Limit value type (country of origin) :	TRGS 900 (D)
	Limit value :	50 ppm / 270 mg/m ³
	Peak limitation :	1(I)
	Remark :	Y
	Version :	06.11.2015
	Limit value type (country of origin) :	STEL (EC)
	Limit value :	100 ppm / 550 mg/m ³
	Remark :	н
	Version :	08.06.2000
	Limit value type (country of origin) :	TWA (EC)
	Limit value :	50 ppm / 275 mg/m ³
	Remark :	Н
	Version :	08.06.2000
	XYLENE ; CAS No. : 1330-20-7	
	Limit value type (country of origin) :	MAK (CH)
	Limit value :	435 mg/m ³ / 100 ml/m ³
	Remark :	
	Version :	22.02.2021
	Limit value type (country of origin) : Limit value :	STEL(CH) 870 mg/m³ / 200 ml/m³
	Remark :	H B
	Version :	22.02.2021
	Limit value type (country of origin) :	TRGS 900 (D)
	Limit value :	100 ppm / 440 mg/m^3
	Peak limitation :	2(II)
	Remark :	н
	Version :	06.11.2015
	Limit value type (country of origin) :	STEL (EC)
	Limit value :	100 ppm / 442 mg/m ³
	Remark :	Н
	Version :	08.06.2000
	Limit value type (country of origin) :	TWA (EC)
	Limit value :	50 ppm / 221 mg/m ³
	Remark :	Н
	Version :	08.06.2000
	N-METHYL-2-PYRROLIDONE ; CAS No. : 8	
	Limit value type (country of origin) :	MAK (CH)
	Limit value :	80 mg/m ³ / 20 ml/m ³
	Remark :	H SSC 22 02 2021
	Version :	22.02.2021
	Limit value type (country of origin) : Limit value :	STEL (CH) 160 mg/m ³ / 40 ml/m ³
	Remark :	H SSC

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22.02.2021

STEL (EC)

17.12.2009

TWA (EC)

2(I)

H, Y 06.11.2015

н

Н

TRGS 900 (D)

20 ppm / 82 mg/m³

20 ppm / 80 mg/m³

10 ppm / 40 mg/m³

Version : Limit value type (country of origin) : Limit value : Peak limitation : Remark : Version : Limit value type (country of origin) : Limit value : Peak limitation : Version : Limit value type (country of origin) : Limit value type (country of origin) : Limit value : Peak limitation : Version :

Biological limit values

XYLENE ; CAS No. : 1330-20-7 Limit value type (country of origin) : Parameter : Limit value : Version : Limit value type (country of origin) : Parameter : Limit value : Version : 17.12.2009 TRGS 903 (D) Xylene / Whole blood (B) / End of exposure or end of shift 1.5 mg/l 31.03.2004 TRGS 903 (D) Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift 2 g/l 31.03.2004

°C

g/cm3

8.2 Exposure controls

Appropriate engineering controls

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment

Eye/face protection

Eye glasses with side protection

Skin protection

Hand protection

Tested protective gloves must be worn Use protective skin cream before handling the product.

Body protection

Wear anti-static footwear and clothing Following skin contact Wash immediately with: Water and soap Do not wash with: Solvents/Thinner

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance :	Liquid		
Colour :	Coloured.		
Odour :	Like solvent.		
Safety charact	eristics		
Initial boiling poin range :	nt and boiling	(1013 hPa)	not applicable
Flash point :			25
Vapour pressure :		(50 °C)	not applicable
Density :		(20 °C)	1.6

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9.2	Solvent separation t Flow time : Other informatio		(20 °C) <		3 % 100 s	DIN-cup 4 mm
	None					
L O .	Stability and read	ctivity				
0.1	Reactivity					
.0.2	No information available Chemical stabilit					
.0.3	No information available Possibility of haz		ctions			
.0.4	No information available Conditions to avo					
	The product is chemicall	ly stable under r	ecommended conditions	of storage, use ar	nd temperature.	
10.5	Incompatible ma	-		5, 11		
	Oxidizing agent Exother		n: Alkali (lve) concentra	ted Acid concent	rated	
10 2						
10.0	Hazardous decon When exposed to high to smoke, oxides of nitroge	emperatures ma		composition produ	icts such as carbon	n monoxide and dioxide,
11.	Toxicological info	ormation				
			ses as defined ir	Regulation	(FC) No 127	72/2008
	Information on h		ses as defined ir	Regulation	(EC) No 127	/2/2008
	Information on h Acute toxicity		ses as defined ir	Regulation	(EC) No 127	/2/2008
	Information on h Acute toxicity Acute oral toxicity			-		
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Other adverse effects

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Frequently or prolonged contact with skin may cause dermal irritation. The liquid splashed in the eyes may cause irritation and reversible damage. There no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

12. Ecological information

12.1 Toxicity

No information available.

- 12.2 Persistence and degradability
- No information available.
- **12.3 Bioaccumulative potential** No information available.
- 12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

- **12.6 Endocrine disrupting properties** No information available.
- **12.7 Other adverse effects** No information available.

12.8 Additional ecotoxicological information

No information available. Do not allow to enter into surface water or drains.

13. Disposal considerations

13.1 Waste treatment methods

Directive 2008/98/EC (Waste Framework Directive)

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

14. Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID) PAINT Sea transport (IMDG) PAINT Air transport (ICAO-TI / IATA-DGR) PAINT

14.3 Transport hazard class(es) Land transport (ADR/RID)

and transport (ADR/RID)	
Class(es) :	3
Classification code :	F1
Hazard identification number (Kemler	
No.):	30



Tunnel restriction code : D/E Special provisions : LQ 51 * E1 * Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/ND. Hazard label(s) : 3 Sea transport (IMDO) Class(es) : Class(es) : 3 Special provisions : LQ 51 * E1 * IMDG 2.3.2.5 (<= 450 l) Hazard label(s) : 3 Air transport (ICAO-TI / IATA-DGR) 3 Special provisions : E1 Hazard label(s) : 3 AP Packing group 11 UII 4 Sea transport (IADO) : No 3 Air transport (ICAO-TI / IATA-DGR) : No 3 Air transport (IADO) : No 3 Air transport (ICAO-TI / IATA-DGR) : No 3 Stepcial prevaitions for user None See transport (IMDO) : No 3 Authorisations and/or restrictions on use Regulation (C) No. 1907/2006 (REACH), Annex XVII (restrictions) UB restriction according to REACH annex XVII, no. : 3 3 National regulations 2 (Obviously hazardous to water) Stefety Assessment No information available. No information available. 3	Trade name : Revision date : Print date :	DUOPOL [®] PU E6 12.05.2023 12.05.2023	1 Steel Color	Version (Revision) :	3.0.0 (2.0.0)
Special provisions : LQ 51 + E1 - Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID. Hazard label(s) : 3 Sea transport (IMDG) Class(es) : Class(es) : 3 Special provisions : LQ 51 - E1 - TIMDG 2.3.2.5 (<= 450 l) Hazard label(s) : 3 Air transport (IAO-TI / IATA-DGR) Class(es) : 3 Special provisions : E1 Hazard label(s) : 3 44 Packing group III Tamsport (IAO-TI / IATA-DGR) Class(es) : 3 44 Packing group III Tamsport (IAO-TI / IATA-DGR) : No Air transport (IAO,TI / IATA-DGR) : No					
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Trade name : Revision date : Print date :	DUOPOL [®] PU E61 Steel Color 12.05.2023 12.05.2023	Version (Revision) :	3.0.0 (2.0.0)
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H360D	May damage the unborn child.		

16.6 Training advice

None

H373

16.7 Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

May cause damage to organs through prolonged or repeated exposure.

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