

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



Article No.: 210X00
Print date: 29.01.2024
Version: 1.1

Felt Touch-up Dye Pen
Revision date: 29.01.2024
Issue date: 29.01.2024

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. product identifiers

Article No. (manufacturer/supplier) 210X00
Trade name/designation Felt Touch-up Dye Pen
Art.No. 210000, 210900
all colours, all gloss values
UFI: 241C-NVR0-S20Y-EG48

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

Relevant identified uses:

Coating (Paint, Varnish).

Uses advised against:

Do not use for products which come into contact with the food stuffs.

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier

Heinrich König GmbH & Co. KG
An der Rosenhelle 5
61138 Niederdorfelden
Germany

Telephone: +49 (0)6101 5360 0
Telefax: +49 (0)6101 5360 11
E-mail: Info@heinrich-koenig.de
Website: www.heinrich-koenig.de

Department responsible for information:

Laboratory

Only available during office hours:

Telephone: +49 (0)6101 5360 71
Mon - Thurs 08:00 to 16:00
Friday 08:00 - 12:30

E-mail (competent person)

SDB@heinrich-koenig.de

1.4. Emergency telephone number

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK
GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 2 / H225

Flammable liquids

Highly flammable liquid and vapour.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Danger

Hazard statements

H225

Highly flammable liquid and vapour.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

Precautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves and eye/face protection.

P370 + P378

In case of fire: Use foam to extinguish.

P403 + P235

Store in a well-ventilated place. Keep cool.

Hazard components for labelling

Amines, C12-14-tert-alkyl,

bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
1-methoxy-2-propanol

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Amines, C10-14-branched and linear alkyl,
bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate(1-)

Supplemental hazard information

not determined

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Dye solution

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification // Remark	
203-539-1	01-2119457435-35-xxxx	
107-98-2	1-methoxy-2-propanol	50 < 100
603-064-00-3	Flam. Liq. 3 H226 / STOT SE 3 H336	
200-578-6	01-2119457610-43-xxxx	
64-17-5	Ethanol	20 < 25
603-002-00-5	Flam. Liq. 2 H225	
252-104-2	01-2119450011-60-xxxx	
34590-94-8	(2-methoxymethylethoxy)propanol Substance with a common (EC) occupational exposure limit value.	7 < 10
285-082-8		
85029-57-8	Amines, C10-14-branched and linear alkyl, bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol -3-onato(2-)]chromate(1-) Skin Sens. 1B H317 / Aquatic Chronic 3 H412	0,25 < 0,3
287-007-4	01-2120766190-58-xxxx	
85408-46-4	Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)] chromate(1-) Skin Sens. 1A H317 / Aquatic Chronic 2 H411	0,1 < 0,25

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

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First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

*

Occupational exposure limit values:

not determined

DNEL:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

- DNEL long-term dermal (systemic), Workers: 283 mg/kg
- DNEL long-term inhalative (systemic), Workers: 308 mg/m³
- DNEL long-term oral (repeated), Consumer: 36 mg/kg
- DNEL long-term dermal (systemic), Consumer: 121 mg/kg
- DNEL long-term inhalative (systemic), Consumer: 37,2 mg/m³

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

- DNEL long-term dermal (systemic), Workers: 183 mg/kg
- DNEL acute inhalative (local), Workers: 553,5 mg/m³
- DNEL acute inhalative (systemic), Workers: 553,5 mg/m³
- DNEL long-term inhalative (systemic), Workers: 369 mg/m³
- DNEL long-term oral (repeated), Consumer: 33 mg/kg
- DNEL long-term dermal (systemic), Consumer: 78 mg/kg
- DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

- DNEL long-term dermal (systemic), Workers: 343 mg/kg
- DNEL acute inhalative (local), Workers: 1900 mg/m³
- DNEL long-term inhalative (systemic), Workers: 950 mg/m³
- DNEL long-term oral (repeated), Consumer: 87 mg/kg
- DNEL acute dermal, short-term (systemic), Consumer: 950 mg/kg
- DNEL long-term dermal (systemic), Consumer: 206 mg/kg
- DNEL acute inhalative (local), Consumer: 950 mg/m³
- DNEL long-term inhalative (systemic), Consumer: 114 mg/m³

PNEC:

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

- PNEC aquatic, freshwater: 19 mg/L
- PNEC aquatic, marine water: 1,9 mg/L
- PNEC aquatic, intermittent release: 190 mg/L
- PNEC sediment, freshwater: 70,2 mg/kg
- PNEC sediment, marine water: 7,02 mg/kg
- PNEC, soil: 2,74 mg/kg
- PNEC sewage treatment plant (STP): 4168 mg/L

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

- PNEC aquatic, freshwater: 10 mg/L
- PNEC aquatic, marine water: 1 mg/L
- PNEC aquatic, intermittent release: 100 mg/L
- PNEC sediment, freshwater: 52,3 mg/kg
- PNEC sediment, marine water: 5,2 mg/kg
- PNEC, soil: 4,59 mg/kg
- PNEC sewage treatment plant (STP): 100 mg/L

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

- PNEC aquatic, freshwater: 0,96 mg/L
- PNEC aquatic, marine water: 0,79 mg/L
- PNEC aquatic, intermittent release: 2,75 mg/L
- PNEC sediment, freshwater: 3,6 mg/kg
- PNEC sediment, marine water: 2,9 mg/kg

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PNEC, soil: 0,63 mg/kg
PNEC sewage treatment plant (STP): 580 mg/L
PNEC Secondary Poisoning: 0,72 mg/kg

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	refer to label
Odour:	Preparations containing solvent
Odour threshold:	not determined
Melting point/freezing point:	-96 °C Source: 1-methoxy-2-propanol
Initial boiling point and boiling range:	78 °C Method: calculated. Source: Ethanol
Flammability:	Highly flammable liquid and vapour.
Lower and upper explosion limit:	
Lower explosion limit:	1,94 Vol-% Method: calculated.
Upper explosion limit:	15 Vol-% Method: calculated. Source: Ethanol
Flash point:	12 °C Method: EN ISO 2719
Auto-ignition temperature:	270 °C Method: calculated. Source: 1-methoxy-2-propanol
Decomposition temperature:	not determined
pH at 20 °C:	not applicable
Kinematic viscosity (20°C)	< 80 mm²/s

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Viscosity at 20 °C:	16 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	27,9601 mbar Method: calculated.
Density and/or relative density:	
Density at 20 °C:	1,00 g/cm³ Method: calculated.
Relative vapour density:	not determined
particle characteristics:	not applicable
9.2. Other information	
Solid content:	7,71 weight-%
solvent content:	
Organic solvents:	92 weight-%
Water:	0 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

*

Acute toxicity

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
oral, LD50, Rat: > 5000 mg/kg
inhalative (dust and mist), LC50, Rat: > 9,5 mg/L (4 h)

(2-methoxymethylethoxy)propanol
oral, LD50, Rat: > 5000 mg/kg
dermal, LD50, Rabbit: 9510 mg/kg
inhalative (vapours), LC50, Rat: 3,35 mg/L 3,35 (4 h)
Based on available data the classification criteria are not met.

1-methoxy-2-propanol
oral, LD50, Rat: 4016 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (vapours), LC50, Rat: > 25,8 mg/L (4 h)
Based on available data, the classification criteria are not met.

Ethanol
oral, LD50, Rat: 10470 mg/kg
Method: OECD 401

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dermal, LD50, Rabbit: > 2000 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: 51 mg/L (4 h)
Method: OECD 403
Based on available data, the classification criteria are not met.

Amines, C10-14-branched and linear alkyl,
bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate(1-)
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
Skin, Mouse:

Method: OECD 429

May cause an allergic skin reaction.

Amines, C10-14-branched and linear alkyl,
bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate(1-)
Skin:

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

1-methoxy-2-propanol

Specific target organ toxicity (single exposure), drowsiness

May cause drowsiness or dizziness.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

12.1. Toxicity

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
Fish toxicity, LC50, Danio rerio (zebrafish) 1 - 10 mg/L (96 h)

Toxic to aquatic life.; Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

Daphnia toxicity, EC50 (48 h)

not determined

Algae toxicity, ErC50

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not determined

Activated sludge, EC50: > 100 mg/L (3 h)

(2-methoxymethylethoxy)propanol

Fish toxicity, LC50, *Poecilia reticulata* (Guppy): > 1000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1919 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 969 mg/L (96 h)

Method: OECD 201

Bacteria toxicity, EC10, *Pseudomonas putida*: 4168 mg/L (18 h)

Based on available data the classification criteria are not met.

1-methoxy-2-propanol

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 6812 mg/L (96 h)

Based on available data, the classification criteria are not met.

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea) 21100 - 25900 mg/L (48 h)

Based on available data, the classification criteria are not met.

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 1000 mg/L (168 h); Evaluation Inhibition of growth rate.

Method: OECD 201

Ethanol

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 15300 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 12340 mg/L (48 h)

Algae toxicity, ErC50, *Chlorella vulgaris*: 275 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC50, *Pseudomonas putida*: 5800 mg/L (4 h)

Based on available data, the classification criteria are not met.

Long-term Ecotoxicity

Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)

Fish toxicity, LC50 (96 h)

Toxic to aquatic life with long lasting effects.

(2-methoxymethylethoxy)propanol

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): > 0,5 mg/L (22 D)

Based on available data the classification criteria are not met.

1-methoxy-2-propanol

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 1000 mg/L (168 h)

Based on available data, the classification criteria are not met.

Amines, C10-14-branched and linear alkyl,

bis[2,4-dihydro-4-[(2-hydroxy-4-nitrophenyl)azo]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)]chromate(1-)

Fish toxicity, LC50 (96 h)

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol

Biodegradation: 75 % (28 D)

Method: OECD 301 F

Readily biodegradable (according to OECD criteria).

1-methoxy-2-propanol

Biodegradation: 96 % (28 d)

Method: OECD 301E

Readily biodegradable (according to OECD criteria).

Ethanol

Biodegradation, aerobic.: 97 % (28 D)

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

(2-methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water: 0,006

1-methoxy-2-propanol

Partition coefficient: n-octanol/water: 0,37

Ethanol

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Partition coefficient: n-octanol/water: -0,35

Bioconcentration factor (BCF)

(2-methoxymethylethoxy)propanol
Bioconcentration factor (BCF): < 100

Ethanol
Bioconcentration factor (BCF): 0,66
No indication of bioaccumulation potential.

12.4. Mobility in soil

Toxicological data are not 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. UN number or ID 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)

3

14.4. Packing group

II

14.5. Environmental hazards

Land transport (ADR/RID) not determined
Marine pollutant not determined

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code D/E
SPECIAL PROVISIONS 640D

Sea transport (IMDG)

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EmS-No. F-E, S-E

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

Maximum VOC content of the product in a ready to use condition (in g/L): 830

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Substance/product listed in the following inventories:

DSL not listed

TSCA no information

15.2. Chemical Safety Assessment *

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35-xxxx
200-578-6 64-17-5	Ethanol	01-2119457610-43-xxxx
252-104-2 34590-94-8	(2-methoxymethylethoxy)propanol	01-2119450011-60-xxxx
287-007-4 85408-46-4	Amines, bis[2-[(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)	C12-14-tert-alkyl, 01-2120766190-58-xxxx

SECTION 16: Other information *

Full text of classification in section 3

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Skin Sens. 1B / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2	Flammable liquids	On basis of test data.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878



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IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version