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

1.1 Product identifier

Trade name: Permanent-Parker PM10 / PM20 schwarz

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

General use: Inks
Restricted to professional users

1.3 Details of the supplier of the safety data sheet

Company name: GIMA e.K.
Street/POB-No.: Altenberger-Dom-Straße 56b
Postal Code, city: 51467 Bergisch Gladbach
Germany
WWW: www.gima-ib.de
E-mail: info@gima-ib.de
Telephone: +49 (0)2202 2 85 85 0
Telefax: +49 (0)2202 2 85 85 28

Dept. responsible for information:
Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

1.4 Emergency telephone number

Michel J. Girard,
Telephone: +49 (0)2202 2 85 85 0, Email info@gima-ib.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 2; H225	Highly flammable liquid and vapour.
Skin Irrit. 2; H315	Causes skin irritation.
Eye Dam. 1; H318	Causes serious eye damage.
Muta. 2; H341	Suspected of causing genetic defects.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)

Signal word: **Danger**

Hazard statements:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Special labelling

EUH208 Contains a,a-bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol. May produce an allergic reaction. (SVHC)

Contains: Formaldehyde, reaction products with N,N-dimethylbenzenamine and N-methylbenzenamine, oxidized; 4-(Phenylazo)benzene-1,3-diamine and Phosphoric acid, 2-ethylhexyl ester

2.3 Other hazards

Prolonged exposure to vapours may have narcotic effect and cause headache.
May be harmful if swallowed.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119457610-43-xxxx EC No. 200-578-6 CAS 64-17-5	Ethanol	50 - 100 %	Flam. Liq. 2; H225. Eye Irrit. 2; H319.
EC No. 203-539-1 CAS 107-98-2	1-Methoxy-2-propanol	2.5 - 10 %	Flam. Liq. 3; H226. STOT SE 3; H336.
EC No. 282-630-8 CAS 84281-86-7	Formaldehyde, reaction products with N,N-dimethylbenzenamine and N-methylbenzenamine, oxidized	2.5 - 10 %	Acute Tox. 4; H302. Eye Dam. 1; H318. Aquatic Chronic 4; H413.
EC No. 207-803-7 CAS 495-54-5	4-(Phenylazo)benzene-1,3-diamine	2.5 - 10 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Muta. 2; H341. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.
EC No. 235-741-0 CAS 12645-31-7	Phosphoric acid, 2-ethylhexyl ester	< 5 %	Skin Corr. 1B; H314. (EUH071).
EC No. 229-851-8 CAS 6786-83-0	a,a-bis[4-(dimethylamino) phenyl]-4-(phenylamino) naphthalene-1-methanol (SVHC)	< 1 %	Skin Sens. 1B; H317. Aquatic Chronic 3; H412.

Full text of H- and EUH-statements: see section 16.

Additional information: This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:
a,a-bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (CMR)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If unconscious place in recovery position and seek medical advice.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Keep airway open. Do not allow victim to become chilled. Keep victim warm. If the casualty has difficulty breathing, call a doctor immediately.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek the attention of an ophthalmologist immediately.

After swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage. Causes skin irritation. May cause sensitisation especially in sensitive humans.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, water spray jet, carbon dioxide
In case of large fires Water spray jet, alcohol resistant foam

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Highly flammable liquid and vapour. With air, vapours form potentially explosive mixtures, which are heavier than air. Heating will lead to pressure increase: Danger of bursting and explosion.
In case of fire may be liberated: Nitrogen oxides (NOx), phosphorus compounds, carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: •3YE

Cool endangered containers with water spray and, if possible, remove from danger zone.
Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid exposure. Eliminate all ignition sources if safe to do so. Provide adequate ventilation. Wear appropriate protective equipment. Keep unprotected people away.
Avoid contact with the substance. Do not breathe vapours. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter soil, sewage, water bodies, lower level rooms or pits. Danger of explosion! If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

In case of spills of large quantities:
Remove persons to safety. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out). Contact expert.
Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. Thoroughly clean surrounding area.

Additional information: Use only spark proof tools.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Obtain special instructions before use.
Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values.
Provide adequate ventilation, and local exhaust as needed.
Do not breathe vapour/aerosol. Avoid contact with skin and eyes. Wear appropriate protective equipment.
When using do not eat, drink or smoke.

Precautions against fire and explosion:
Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.
Do not weld. Avoid sparks. Use only spark proof tools.
Vapours can form explosive mixtures with air.
When decanting, use only grounded equipment and conduits.
Electrical equipment must be explosion protected according to standards.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Protect from heat and direct sunlight.
Store containers in upright position.

Hints on joint storage: Keep away from strongly acidic and alkaline materials as well as oxidizers.
Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64-17-5	Ethanol	Great Britain: WEL-TWA	1920 mg/m³; 1000 ppm
		Ireland: 15 minutes	1000 ppm
107-98-2	1-Methoxy-2-propanol	Europe: IOELV: STEL	568 mg/m³; 150 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	375 mg/m³; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	560 mg/m³; 150 ppm
		Great Britain: WEL-TWA	375 mg/m³; 100 ppm
		Ireland: 15 minutes	568 mg/m³; 150 ppm
		Ireland: 8 hours	375 mg/m³; 100 ppm

DNEL/DMEL: Information about Ethanol:
DNEL workers, long-term, systemic, dermal: 343 mg/kg bw/d
DNEL workers, long-term, systemic, inhalative: 950 mg/m³
DNEL workers, short-term, local, inhalative: 1900 mg/m³
DNEL consumers, long-term, systemic, dermal: 206 mg/kg bw/d
DNEL consumers, long-term, systemic, inhalative: 114 mg/m³
DNEL consumers, short-term, local, inhalative: 950 mg/m³
DNEL consumers, long-term, systemic, oral: 87 mg/kg bw/d

PNEC: Information about Ethanol:
PNEC water (freshwater): 0.96 mg/L
PNEC water (marine water): 0.79 mg/L
PNEC water (intermittent release): 2.75 mg/L
PNEC sediment (freshwater): 3.6 mg/kg dw
PNEC soil: 0.63 mg/kg dw
PNEC sewage treatment plant: 580 mg/L

8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.
Electrical equipment must be explosion protected according to standards.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN 374.
Glove material: Butyl caoutchouc (butyl rubber) (0.5 mm), fluoro rubber (0.4 mm)
Breakthrough time: >240 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.
In case of handling larger quantities: Flame-retardant protective clothing, solvent-resistant. boots.

General protection and hygiene measures:
Obtain special instructions before use. Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Do not breathe vapour/aerosol. Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.
Have eye wash bottle or eye rinse ready at work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Colour: black
Odour:	characteristic
Odour threshold:	not determined
pH value:	at 20 °C: 5
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	78 °C
Flash point/flash point range:	13 °C
Evaporation rate:	not determined
Flammability:	Highly flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 1.70 Vol-% UEL (Upper Explosive Limit): 15.00 Vol-%
Vapour pressure:	at 20 °C: 59 hPa
Vapour density:	not determined
Density:	at 20 °C: 0.86 g/mL
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not self-igniting
Decomposition temperature:	No data available
Viscosity, dynamic:	at 20 °C: 3 mPa*s
Explosive properties:	Product is not explosive. Potentially explosive vapour/air mixtures may form.
Oxidizing characteristics:	No data available

9.2 Other information

Solvent content:	79.9 %
Solid content:	11.1 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.
Vapours can form explosive mixtures with air.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.
Protect against direct sunlight.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

In case of fire may be liberated: Nitrogen oxides (NOx), phosphorus compounds, carbon monoxide and carbon dioxide

Thermal decomposition: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix calculated: >2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix calculated: >2000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix calculated: >20 mg/L

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic defects.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information:

Information about Ethanol:
LD50 Rat, oral: 10470 mg/kg
LD50 Rabbit, dermal: 15800 mg/kg
LC50 Rat, inhalative: 30 mg/L

Information about 1-Methoxy-2-propanol:
LD50 Rat, oral: 4016 mg/kg
LD50 Rabbit, dermal: > 10000 mg/kg

Symptoms

Information about Ethanol: Dizziness, double vision and other characteristics typical of drunkeness, vomiting, loss of consciousness.
In case of inhalation: irritation to eyes, irritation to respiratory tract
In case of ingestion: Chronic absorption of ethanol will cause liver damage.
After contact with skin:
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
After eye contact: Irritation and redness may occur.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Ethanol:
Fish toxicity:
LC50 Oncorhynchus mykiss: 11200 mg/L/24h
Daphnia toxicity:
EC50 Ceriodaphnia spec: 5012 mg/L/48h
Algae toxicity: LC50 Chlorella vulgaris: 275 mg/L/72h

Information about 1-Methoxy-2-propanol:
Fish toxicity:
LC50 Leuciscus idus: 4000 - 10000 mg/L/96h
Daphnia toxicity:
LC50 Daphnia magna (Big water flea): 21000 - 25900 mg/L/48h
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/7d

Information about a,a-bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol
Daphnia toxicity:
EC50: 0.025 mg/L/48h

12.2 Persistence and degradability

Further details:

No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

not determined

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.
Avoid spills and leaks. Very small amounts contaminates drinking water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 08 01 13* = Sludges from paint or varnish containing organic solvents or other hazardous substances.
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.
Non-contaminated packages may be recycled.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1263

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1263, Paint

14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1
IMDG: Class 3, Subrisk -
IATA-DGR: Class 3

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

II

14.5 Environmental hazards

Marine pollutant: yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 33, UN number UN 1263
Hazard label:	3
Special provisions:	163 367 640D 650
Limited quantities:	5 L
EQ:	E2
Contaminated packaging - Instructions:	P001 - IBC02 - R001
Contaminated packaging - Special provisions:	PP1
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T4
Portable tanks - Special provisions:	TP1 - TP8 - TP28
Tank coding:	LGBF
Tunnel restriction code:	D/E

Sea transport (IMDG)

EmS:	F-E, S-E
Special provisions:	163, 367
Limited quantities:	5 L
Excepted quantities:	E2
Contaminated packaging - Instructions:	P001
Contaminated packaging - Provisions:	PP1
IBC - Instructions:	IBC02
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1, TP8, TP28
Stowage and handling:	Category B.
Properties and observations:	Miscibility with water depends upon the composition.
Segregation group:	none

Air transport (IATA)

Hazard label:	Flamm. liquid
Excepted Quantity Code:	E2
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L
Passenger and Cargo Aircraft:	Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L
Cargo Aircraft only:	Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L
Special provisions:	A3 A72 A192
Emergency Response Guide-Code (ERG):	3L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

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

National regulations - Great Britain

Hazchem-Code: •3YE

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

79.9 % by weight = 687 g/L

Labelling of packaging with <= 125mL content

Signal word: **Danger**

Hazard statements:

H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.

Precautionary statements:

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.
H226 = Flammable liquid and vapour.
H302 = Harmful if swallowed.
H303 = May be harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H336 = May cause drowsiness or dizziness.
H341 = Suspected of causing genetic defects.
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.
H412 = Harmful to aquatic life with long lasting effects.
H413 = May cause long lasting harmful effects to aquatic life.
EUH071 = Corrosive to the respiratory tract.
EUH208 = Contains a,a-bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol. May produce an allergic reaction. (SVHC)

Reason of change: Changes in section 2: Labelling (P-phrases: EU, ATP 8)
Date of first version: 27/10/2015

Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.