C. Josef Lamy GmbH

Safety Data Sheet According to No. 1907/2006/EC (REACH)

(LAOII)

Product Name: Lamy 105074 schwarz, Füllhaltertinte

Date Made out: 9 August, 2016

Date of Last Revision: Page 1/ 13

SECTION 1: Product and Company Identification

Product name: Lamy 105074 schwarz, Füllhaltertinte

Product utilisation: Black fountain-pen ink

Producer / Supplier: C. Josef Lamy GmbH

Tel.:+49-(0)6221 843182; fax: +49-(0)6221-843264

E-mail: Reinhard.Probol@lamy.de Internet: http://www.lamy.com

Person in charge: Mr. Reinhard Probol

Tel., fax, e-mail as above

Emergency phone: Tel.:+49-(0)6221 843182

SECTION 2: Hazards Identification

2.1 General Information: More than 90% of the ink consist of water, < 5% consist of a dye

mixture, and < 3.5% of additives, none of which is hazardous according to Ordinance (EC) No. 1272/2008 (GHS). Annother < 1.5% consist of an additive, which is irritating to eyes, and < 0,01% and < 0,005% of 2 biocides, which are skin-sensitizing. According to GHS-Ordinance these 2 biocides need not to be declared below 0.1%.

2.2 Classification and Labelling according to Ordinance (EC) No. 1272/2008 (GHS) linked to table

3.1of annex VI:

None

2.3 Information pertaining to particular dangers to man and the environment:

Contact with the eyes, e. g. by rubbing the eyes with fingers contaminated with the ink, may in some cases result in eye irritation.

The product is not combustible. The residue is combustible after

complete evaporation of the water.

SECTION 3: Composition / Information on Ingredients

3.1 Chemical characterization: Aqueous solution of a mixture of dyes, 3 additive

compounds and 2 biocides (refer to SECTION 2.1).

3.2 Hazardous ingredients and Classification of the <u>pure</u> ingredients according to Ordinance (EC) No.

1272/2008 (GHS):

Name of compound: N-Methyldiethanolamine

CAS-No.: 105-59-9 EINECS-No.: 203-312-7

Synonyms: 2,2'-(Methylimino)diethanol; 2-(N-2-Hydroxyethyl-N-methylamino)ethanol; Bis(2-

hydroxyethyl)methylamine; N-Methyl-2,2'-iminodiethanol; N-Methylaminodiglycol;

Ethanol, 2,2'-(methylimino)bis-; Ethanol, 2,2'-(methylimino)di-

Percentage by weight: < 1.5

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Eye Irritation, Cat. 2; H319: Causes serious eye irritation



Signal Word: "Warning"

3.3 Other ingredients:

Common or chemical name	CAS-No.	EINECS-No.	Chemical Nature	Percentage by weight
Water	7732-18-5	231-791-2	omitted	> 90
Glycerin 56-81-5 200-289-5 trihydroxy sugar alcohol < 3 Synonyms: glycerol; glycyl alcohol; 1,2,3-propanetriol; 1,2,3-trihydroxypropane				
Propylene glyco Synonyms: Propan		200-338-0 vlenglykol; 1,3-Dihyd	dihydroxy alcohol roxypropan; 1,3-Propylenglykol	< 0.5
Mixture of				
Azo dyes	n/a	n/a	azo dyes	< 3.4
Azo dye	n/a	n/a	azo dye	< 0.11
Other dye	n/a	n/a	n/a	< 0.5

SECTION 4: First Aid Measures

General information: If used as intended, First Aid measures are not expected to be necessary.

After ingestion of substancial amounts of the product or after

incorporation, e.g. during the production and packaging of large quantities,

the following First Aid Measures may be relevant:

After inhalation

of aerosols: If irritations of the respiratory tract occur, move the affected person

immedfiately into the fresh air. If discomfort persists, call a physician. Note: This is relevant only for the inhalation of arerosols, as at room temperatures only water will evaporate in appreciable quantities. Remove contaminated clothing and wash skin with soap and water.

Skin: Remove contaminated clothing and wash skin with soap and water.

Eyes: Rinse eyes for at least 15 minutes with plenty of water. Remove contact

lenses if considered neessary. Seek medical attention if symptoms

persist.

If the patient is conscious he/she should rinse his/her mouth out with

water, spit it out, and then drink large quantities of water. Do not induce vomiting. Seek medical attention if symptoms persist or if more than 100

ml is ingested.

Instructions for the doctor: None.

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SECTION 5: Fire-Fighting Measures

General information: The product is not combustible. The organic residue is

combustible only after the water has evaporated.

Extinguishing agents: Determine according to surrounding materials.

Special exposure hazards: Dependent on surrounding materials (refer also to SECTION 10).

Special protective equipment for fire-fighters: Dependent on surrounding materials.

Further notice: Do not allow water used for firefighting to enter either sewers or

natural water bodies. Collect contaminated water separately.

SECTION 6: Accidental Release Measures

Personal precautions: If aerosols are generated use a fine dust respirator (P2 or P3) or a

ventilated breathing hood.

Environmental precaution: Do not discharge the product into surface water, groundwater or

soil.

Cleaning-up methods: Withdraw large quantities. Take up the rest with liquid-adsorbent

material (sand, clay, cat litter or other adsorbent material for water). Discharge contaminated material according to SECTION

13

SECTION 7: Handling and Storage

Handling: Avoid contact with skin and eyes.

Notes for prevention of fire

and explosion: Not applicable.

Storage: Keep containers closed. Keep off of heat and sun. The additive N-Methyldi-

ethanolamine is light sensitive. VCI storage class (Germany): 12.

SECTION 8: Exposure Controls / Personal Protection

8.1 Technical Protection: Prevent generation of aerosols.

8.2 Occupational Exposure Limits:

Glycerin

- *CAS-No.:* 56-81-5

- Exposure limit value: 50 mg/m³ (inhalable aerosol)

- Short term limit value: 100 mg/m³ (inhalable aerosol: 15-minute average, 4

measurements at intervals of 1 hour)

- BLV: None

- Origin: Not a mandatory recommendation of the MAK-Commission of

Germany

- Remarks: C - Year: 2016

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Explanations:

- BI V Biological Limit Value

- Short term limit values: Exceeding factor X: Exposure may exceed the exposure

> limit value by the factor X for not longer than 15 minutes. Exceeding factor =X=: Exposure must never exceed the exposure limit value by more than the factor X (instantaneous

value).

(I): Category I: substances for which the exposure limit value

is based on local effects or sensitizing substances. (II): Category II: substances effective by resorption. H: Substances effective by resorption through skin

S = Sensitizing substance

Y or C: There is no teratogenic risk if the exposure limit

value and the BLV are maintained.

8.3 Personal Protection:

- Remarks:

General information: If the product is used as intended, no protection is necessary.

Only if the product is handled in large amounts, - e.g. during production and packaging -, is personal protection necessary.

Respiratory protection: Hand protection:

Fine-dust respirator if aerosols are generated.

If intensive contact with hands cannot be avoided use protective gloves tested according to DIN EN 374. Seek advice from the manufacturers of protective gloves. If gloves cannot be used for safety reasons (e.g. while working at rotating machines) use skin-protective barrier cream. Consult the company medical officer for the type of barrier cream to

be used

Comment: In contrary to European ordinance 1907/2006/EC (REACH), it is not sufficient to specify only the protective glove material. The break-through-times are dependent not only on the material but also on the manufacturing technique. It is therefore essential to consult the manufacturers of

protective gloves.

For the product the following glove materials should be appropriate: natural rubber (latex) - NR (0.5 mm), chloroprene rubber - CR (0.5 mm), nitrile rubber (latex) - NBR (0.35 mm), butyl rubber (0.5 mm), fluororubber (0,4 mm), polyvinyl chloride - PVC (0.5 mm).

Safety glasses with side shield. Eye protection:

Use waterproof protective clothing and gumboots if conta-Skin protection:

mination of clothing is possible.

Avoid contact with eyes and skin. Change contaminated General protective measures:

clothing immediately.

Industrial hygiene: Wash hands after working with the product. Maintain stan-

dards of industrial hygiene. Do not eat, drink, smoke or take

snuff at work.

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SECTION 9: Physical and Chemical Properties

9.1 Appearance

Physical state: Fluid
Colour: Blue-black
Odour: Sweetish

9.2 Relevant Data for Safety and Health

Melting point/ range: Not determined, but slightly below 0°C
Boiling point / range: Not determined, but slightly above 100°C

Flash range: No inflammation Ignition temperature: Not applicable Autoignition temperature: Not applicable Explosive range: Not applicable

Vapour pressure: Close to that of water

Density: 1.021 +/- 0.010 g/cm³ at 23°C

Solubility in water: Miscible pH-value: 7 - 9 (23°C) Solubility in other solvents: Not determined

Partition coefficient

n-octanol/water: Not determined

Dynamic viscosity: 1.40 +/- 0,10 mPa s (20°C, Rheostress 1)

SECTION 10: Stability and Reactivity

Thermal decomposition: Not determined

Substances to be avoided: Strong oxidizing agents, strong acids, acid anhydrides,

acid chlorides

Dangerous reactions: Vigorous reactions with the "substances to be avoided" Hazardous decomposition products: After evaporation of the water: carbon monoxide, carbon

dioxide, and very small quantities of nitrous and sulfur oxides, hydrocyanic acid, organochlorides and metals or

metal oxides.

Dangerous polymerizations: None

SECTION 11: Toxicological Information

11.1 Product:

There are no studies on the toxicity of the product.

11.1.1 Toxikokinetics, metabolism and distribution:

Inhalation of aerosols is the main route of occupational exposure. Absorption of glycerin and propylene glycol through the skin is negligible due to dilution. Ingested glycerin and propylene glycol are highly resorbed. N-Methyldiethanolamine may be incorporated by contact with skin. It is rapidly metabolized and metabolites are excreted by urine with a half-life of a bit more than 30 hours (HSDB). There is no information about the other ingredients.

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11.1.2 Toxicity:

On the basis of the toxicity of the ingredients - as far as known - the following toxic effects are to be expected:

Acute toxicity:

Contact with eyes may induce eye irritation. With the intended use of the product no toxic symptoms can be expected.

Acute oral toxicity: LD_{50} (rat, oral): > 2000 mg/kg

Acute inhalative toxicity: No data available.

Acute dermal toxicity: The ingredient glycerin may penetrate the skin, but causes only

slight or no symptoms (GESTIS).

After inhalation: There are no records on the inhalation of aerosols. The vapour

pressures of the ingredients other than water are negligible.

After skin contact: No irritation.

After eye contact: Irritation is possible.

After ingestion: Though the ingredients glycerin and propylene glycol are rapidly

resorbed in the gastrointestinal tract, dysfunctions of the gastrointestinal tract can be expected only after the ingestion of

large amounts.

Toxic effects after repeated exposure (subacute to chronic toxicity):

Sensitization: The ingredient N-methyldiethanolamine has a potential to induce

allergic contact dermatitis based on animal experiments according to Magnusson and Kligman (HSDB). Besides the azo dye (refer to SECTON 11.2.5) no sensitization effects are known for

the other ingredients.

Mutagenicity: No mutagenic effects are known.

Cancer: No carcinogenic effects are known. No ingredient is mentioned

as carcinogenic in the TRGS 905 list.

Reproductive toxicity: No toxic effects on reproduction are known.

Further information: The product contains 2 biocides with concentrations of < 0,01%

and < 0,005%, which are skin-sensitizing.

Practical experience: There are no reports of symptoms of poisoning after using or

handling the product.

11.2 For the **pure** ingredients the following data on acute toxicity are available:

11.2.1 N-Methyldiethanolamine:

 $\begin{array}{lll} \text{LD}_{50} \text{ (rat, oral):} & 1,950 \text{ mg/kg (GESTIS)} \\ \text{LD}_{50} \text{ (rabbit, dermal):} & 6,220 \text{ mg/kg (GESTIS)} \\ \text{LD}_{50} \text{ (male rat, percutaneous):} & 9.85 \text{ mL/kg (HSDB)} \\ \text{LD}_{50} \text{ (female rat, percutaneous):} & 10.90 \text{ mL/kg (HSDB)} \\ \text{LC}_{50} \text{ (rat, inhalative):} & > 6.5 \text{ mg/m}^3 \text{ / 6 h (HSDB)} \\ \end{array}$

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Specific symptoms in animal experiments:

Eye irritation: No irritation (MSDS of the supplier) Skin irritation: No irritation (MSDS of the supplier)

Sensitization: Not sentizising guinea pig (MSDS of the supplier)

Bacterial mutagenicity: Ames-test (in vitro): negativ (MSDS of the supplier)

Cancer: No carcinogenic effects are known.

Reproductive toxicity: Female rat, dermal: at 1000 mg/kg no effects after 15 days

(MSDS of the supplier).

11.2.2 Glycerin:

LD₅₀ (rat, oral): 12,600 mg/kg (IUCLID, GESTIS)

 LD_{50} (rabbit, dermal): 18,700 mg/kg (IUCLID) LD_{50} (rabbit, dermal): >10,000 mg/kg (GESTIS)

Specific symptoms in animal experiments:

Eye irritation: No irritation (OECD 405 according to Merck)

Skin irritation: No irritation (Merck)

Sensitization: Patch-tests on humans with glycerin were negative (IUCLID).

Mutagenicity: Ames-test in vitro with glycerin was negative (IUCLID).

11.2.3 Propylene glycol:

LD₅₀ (rat, oral): 20,000 mg/kg (GESTIS) LD₅₀ (rabbit, dermal): 20,800 mg/kg (GESTIS)

Specific symptoms in animal experiments:

Eye irritation: Slight irritations (Merck)
Skin irritation: Slight irritations (Merck)

Sensitization: Experiences on humans are negative (Merck).

Mutagenicity: Tests with mammal cells (in vitro) were negative (OECD 476

according to Merck). Animal tests were negative. Ames-test

(bacterial mutagenicity) was negative (Merck).

Reproductive toxicity: No toxic effects on reproduction are known. There was no

influence on the reproduction and no teratogenic effects in

animal tests (Merck).

Cancer: No carcinogenic effects are known. Not carcinogenic in animal

tests (Merck)

11.2.4 Mixture of azo dyes:

LD₅₀ (rat, oral): > 5,000 mg/kg (MSDS of the supplier)

Specific symptoms in animal experiments:

Eye irritation: No irritation (MSDS of the supplier)
Skin irritation: No irritation (MSDS of the supplier)

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Bacterial mutagenicity: Ames-test in vitro: negativ (MSDS of the supplier)

Note:

The testings were carried out by the supplier for a similiar

product.

Cancer: No carcinogenic effects are known (MSDS of the supplier and

ancillary demand, because the identities of the azo dyes are

not disclosed).

11.2.5 Azo dye:

LD₅₀ (rat, oral): > 5,000 mg/kg (MSDS of a manufacturer)

Specific symptoms in animal experiments:

Eye irritation: Slight irritation (MSDS of a manufacturer)
Skin irritation: No irritation (MSDS of a manufacturer)

Sensitization: There is obviously some evidence that the dye has a sentizising

potential when inhaled, but it is not classified as sentizising (MSDS of a manufacturer). There is no such indication in 3 other

MSDS of suppliers.)

Cancer: No carcinogenic effects are known. This azo dye is not listed in

"Industrievereinigung Farbstoffe und organische Pigmente" of 3 March 2001, which contains all azo dyes, which may decompose

to cancerogenic amines according to TRGS 614.

11.2.6 Other dye

LD₅₀ (rat, oral): > 5,000 mg/kg (MSDS of the supplier)

Specific symptoms in animal experiments:

Eye irritation: No irritation (HSDB, MSDS of the supplier)
Skin irritation: No irritation (HSDB, MSDS of the supplier)

Mutagenicity: There was no evidence of mutagenicity in animal experiments

(HSDB).

SECTION 12: Ecological Information

12.1 Product:

Ecotoxic effects: There is no information on toxic effects.

Ecotoxic data: No ecological data are available for the product.

Water Pollution Category,

Germany (WGK): Slightly water polluting (Water Pollution Category 1)

12.2 **Pure** ingredients:

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12.2.1 N-Methyldiethanolamine:

Ecotoxic effects: In ambient air N-methyldiethanolamine is degraded with a half-

life of about 4 hours. It is estimated that N-methyldiethanolamine is very mobile in soil. N-Methyldiethanolamine was found to be non-biodegradable after 28 days during a standard batch test using activated sludge from a municipal wastewater treatment plant as inoculum. In a 40-day continuous flow experiment using activated sludge, the same solution containing N-methyldiethanolamine degraded >96% based on TOC which was probably due to the adaptation of the microrganisms to the test substance. Volatilization from water or soil is negligible due to low vapor pressure. Bioconcentration is low. (HSDB)

Ecotoxic data: Therer are no LC₅₀ data.

Further information:

Biodegradation: 70% / 28 days (MSDS of the supplier, but also refer to "Ecotoxic

effects").

BCF: 3.2 (estimated, HSDB)

Distribution log P(o/w): -1.50 (HSDB)

Water Pollution Category,

Germany (WGK): Slightly water pollution (Water Pollution Category 1). VwVwS

annex 2, identification no.: 1588

12.2.2 Glycerin:

Ecotoxic effects: Readily biodegradable. No bioaccumulation expected.

Ecotoxic data:

> 5,000 mg/l / 24 h (Merck) Fish toxicity: Carassius auratus: LC₅₀: EC₅₀: > 10,000 mg/l / 24 h (Merck) Daphnia toxicity: Daphnia magna: > 10,000 mg/l / 16 h (Merck) Bacterial toxicity: Pseudomonas putida: EC₅: Protozoa toxicity: 3,200 mg/l / 72 h (Merck) Entosiphon sulcatum: EC5: Algae toxicity: Scenedesmus quadricauda: > 10,000 mg/l / 7 d (Merck) IC₅:

Further information:

Biodegradation: > 63% / 14 d (OECD 301C)

Decrease: DOC >70%, BOD >60%

Distribution log P(o/w):

BOD:

COD:

TOD:

-1.76 (calculated, Merck)
71% of TOD / 5 d (Merck)
95% of TOD (Merck)
1.217 g/g (Merck)

WGK (Water Pollution

category, Germany): 1 (slightly water polluting), VwVwS, annex 2, identification no.:

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12.2.3 Propylene glycol:

Ecotoxic effects: Readily biodegradable. No bioaccumulation is to be expected. (Merck)

Ecotoxic data:

Fish toxicity: Onchorhynchus mykiss: LC₅₀: 51,600 mg/l / 98 h (OECD

203 according to Merck)

Daphnia toxicity: Daphnia magna: EC_{50} : 34,400 mg/l / 48 h (Merck) Bacterial toxicity: Photobacterium phosphoreum: EC_{50} : 26,800 mg/l / 30 min (Merck) Crustacean toxicity: LC_{50} : 1020 up to 18,300 mg/l (median: 5,120 mg/l) / 48 h GESTIS)

Further information:

Biodegradation: 87% - 92% /28 d (OECD 301C according to Merck)

BCF: < 1 (calculated, Merck)
Distribution log P(o/w): - 0.92 (experimental, Merck)

Water Pollution Category,

Germany (WGK): Category 1 (Slightly water polluting). VwVwS Annex 3, , idendi-

fication no.: 280

12.2.4 Mixture of azo dyes:

Ecotoxic effects: Not readily biodegradable.

Ecotoxic data:

Fish toxicity: LC_{50} : > 100 mg/l / 98 h (MSDS of the

supplier)

Bacterial toxicity: Sewage sludge: EC₅₀: > 100 mg/l / 3 h (OECD 209

according to MSDS of the supplier)

Further information:

Biodegradation: < 10% bzw. 22,56 / 5 d (MSDS of the supplier)

Distribution log P(o/w): 0.69 (ChemID)

Water Pollution Category,

Germany (WGK): Water polluting (Water Pollution Category 2). VwVwS annex 2,

identification no.: 1492

12.2.5 Azo dye:

Ecotoxic effects: Readily biodegradable (MSDS of the supplier).

Ecotoxic data:

Fish toxicity: L. ides*: LC₅₀: 1.000 mg/l / 48 h (MSDS of a manufacturer)

* Possibly meant: Leuciscus idus

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Further information:

Degradibility: 22,56% / 5 d (MSDS of the supplier)

Water Pollution Category,

Germany (WGK): Water polluting (Water Pollution Category 2). VwVwS annex 2,

identification no.: 1492

12.2.6 Other dye:

Ecotoxic effects: Interferences in adapted biological sewage treatment plants are

not to be expected with appropriate discharge of the dye at low concentration (MSDS of the supplier). Biotic degradation is low.

Ecotoxic data:

Fish toxicity: Poecilia reticulata: LC₀: > 10.000 mg/l / 98 h (MSDS of the

supplier)

Bacterial toxicity: Pseudomonas fluorescens: IC₁₀: > 100 mg/l (MSDS of the

supplier)

Further information:

Biodegradation: < 10% (MSDS of the supplier)

Distribution log P(o/w): 0.69 (ChemID)

Water Pollution Category,

Germany (WGK): Water pollution (Water Pollution Category 2). VwVwS annex 2,

identification no.: 1492

Do not allow the product to enter water supplies, waste water or soil.

SECTION 13: Disposal Information

13.1 Product: No hazardous waste. For disposal the product has not to be

supervised. For industrial users the product should be preteated

to remove water previous to disposal.

Industrial users should dispose the product according to the

following waste codes:

Waste code: 08 01 12

Waste name: waste paint and varnish other than those mentioned in 08 01 11*

13.2 Wastes contaminated by the product (adsorbent materials, protective clothing):

Waste code: 15 02 03

Waste name: Adsorbent and filter materials, wipes and protective clothing with

the exception of those included under waste code 15 02 02*

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13.3 Packing materials:

13.3.1 Glass

Waste code: 15 01 07

Waste name: Packing material made of glass

13.3.2 Plastic:

Waste code: 15 01 02

Waste name: Packing material made of plastic

All waste codes and names in accordance with the European Waste Register Ordinance.

SECTION 14: Transport Information

The product is not classified under international transport regulations.

UN No. / CHIP Classification: Not classified as hazardous for freight purposes.

IMG-code ADR / RID ICAO / IATA
Not classified Not regulated Not regulated

Transportation by AIR, as a non-hazardous material under the current 57th edition 2016 of the IATA Dangerous Goods

Regulation.

SECTION 15: Regulatory Information

15.1 There are no safety reports available based on 1907/2006/EC (REACH).

15.2 National Regulations Germany

15.2.1 StörfallV: Not applicable

15.2.2 TA-Luft: Clause 5.2.5: Organic substances apart from particulate

matter: max. mass concentration: 50 mg/m³ or max. mass

flow: 0.50 kg/h (calculated as total carbon)

15.2.3 WHG (Water Pollution

Category, Germany): Water polluting (Water Pollution Category 2, refer to

SECTION 12)

15.2.4 VCI Storage Class: 12

15.2.5 Volatile components: Water (VOC: 0%)

15.3 Further regulations: None

SECTION 16: Other Information

Abbreviations:

AOX: Adsorbable organohalogens BCF: Bioconcentration factor BOD: Biochemical oxygen demand

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ChemID: Database of the United States National Library of Medicine

COD: Chemical oxygen demand DOC: Dissolved organic carbon

EINECS: European Inventory of Existing Commercial Substances

EPA: Environmental Protection Agency, USA

GESTIS: Data base of Berufsgenossenschaftliches Institut für Arbeitsschutz, Germany

HSDB: Hazardous Substances Data Bank (National Library of Medicine, USA)

IC₅₀: 50% of the maximal inhibitory concentration

IUCLID: International Uniform Chemical Information Database

LC₅₀: Lethal Concentration for 50% of the tested animals

LD₅₀: Lethal Dose for 50% of the tested animals

MAK: Maximale Arbeitsplatzkonzentration (maximum concentration in the workplace)

Merck: Current MSDS of Merck, Darmstadt, Germany

MSDS: Material Safety Data Sheet

OECD: Organisation for Economic Cooperation and Development

RTECS: Register of Toxic Effects of Chemical Substanbes

StörfallV (Hazardous Incident Ordinance)

TA Luft: Technische Anleitung Luft (Technical Instructions on Air Quality)

TOC: Total organic carbon
TOD: Theoretical oxygen demand

TRGS: Technische Regel f,r Gefahrstoffe (Technical rules for hazardous substances, Germany)

VCI: Verband der Chemischen Industrie e.V. (Association of the Chemical Industry, Germany)

VOC: Volatile organic carbons

VwVwS: Ordinance for water pollutant substances, Germany WHG: Wasserhaushaltsgesetz (German Federal Water Act)

General information:

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered in good faith in the belief that it is accurate. This material safety data sheet shall not be deemed to constitute or imply any warranty of any kind. In the event of an adverse incident associated with this materail, this safety data sheet is not intended as a substitute for consultation with appropriately trained personnel (refer to section 1). Nor is this safety data sheet intended to be a substitute for any product literature which may accompany the finished product.

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