

Rudolf Hensel GmbH
21039 Börnsen

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

1.1 Product identifier

HENSOTOP 84 AF matt

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

1.2.1 Relevant uses

Top coat

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Rudolf Hensel GmbH
Lauenburger Landstr. 11
21039 Börnsen / GERMANY
Phone +49 (0)40-72 10 62 10
Fax +49 (0)40-72 10 62 52
Homepage www.rudolf-hensel.de
E-mail info@rudolf-hensel.de

Address enquiries to

Technical information info@rudolf-hensel.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Company +49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 3: H226 Flammable liquid and vapour.
STOT SE 3: H336 May cause drowsiness or dizziness.

2.2 Label elements

Hazard pictograms



Signal word

WARNING

Contains:

1-methoxy-2-propanol
2-Methoxy-1-methylethyl acetate

Hazard statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.
P312 Call a POISON CENTER / doctor /.../ if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

2004/42/CE

< 500 g/l II A i SB One-pack performance coatings (max. 500 g/l)

2.3 Other hazards

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
10 - 20	1-methoxy-2-propanol
	CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
10 - 20	2-Methoxy-1-methylethyl acetate
	CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336
1 - 10	n-Butyl acetate
	CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - - STOT SE 3: H336

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Remove the victim into fresh air and keep him calm.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Vertigo
Dizziness
If swallowed or in the event of vomiting, risk of product entering the lungs.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet.
Carbon dioxide.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Phosphorus oxides (POx).

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5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use personal protective equipment.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines and in the processing area.

Keep away from all sources of ignition - Refrain from smoking.

Take precautionary measures against static discharges.

Vapours can form an explosive mixture with air.

Ignitable mixtures can be formed in the empty container.

Use explosion-proofed equipment/fittings and non-sparkling tools.

Do not eat, drink, smoke or take drugs at work.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
2-Methoxy-1-methylethyl acetate
CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX
Long-term exposure: 50 ppm, 274 mg/m ³ , Sk
Short-term exposure (15-minute): 100 ppm, 548 mg/m ³
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Long-term exposure: 100 ppm, 375 mg/m ³ , Sk
Short-term exposure (15-minute): 150 ppm, 560 mg/m ³
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Long-term exposure: 150 ppm, 724 mg/m ³
Short-term exposure (15-minute): 200 ppm, 966 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-Methoxy-1-methylethyl acetate
CAS: 108-65-6, EINECS/ELINCS: 203-603-9, EU-INDEX: 607-195-00-7, Reg-No.: 01-2119475791-29-XXXX
Eight hours: 50 ppm, 275 mg/m ³ , H
Short-term (15-minute): 100 ppm, 550 mg/m ³
1-methoxy-2-propanol
CAS: 107-98-2, EINECS/ELINCS: 203-539-1, EU-INDEX: 603-064-00-3, Reg-No.: 01-2119457435-35-XXXX
Eight hours: 100 ppm, 375 mg/m ³ , H
Short-term (15-minute): 150 ppm, 568 mg/m ³
n-Butyl acetate
CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
Eight hours: 50 ppm, 241 mg/m ³
Short-term (15-minute): 150 ppm, 723 mg/m ³

DNEL

Substance
n-Butyl acetate, CAS: 123-86-4
Industrial, dermal, Acute - systemic effects: 11 mg/kg bw/day.
Industrial, inhalative (vapor), Acute - local effects: 600 mg/m ³ .
Industrial, inhalative (vapor), Long-term - local effects: 300 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
Industrial, inhalative (vapor), Acute - systemic effects: 600 mg/m ³ .
Industrial, inhalative (vapor), Long-term - systemic effects: 300 mg/m ³ .
general population, inhalative (vapor), Long-term - systemic effects: 35,7 mg/m ³ .
general population, oral, Long-term - systemic effects: 2 mg/kg bw/day.
general population, dermal, Acute - systemic effects: 6 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 6 mg/kg bw/day.
general population, inhalative (vapor), Acute - local effects: 300 mg/m ³ .
general population, inhalative (vapor), Long-term - local effects: 35,7 mg/m ³ .
general population, inhalative (vapor), Acute - systemic effects: 300 mg/m ³ .



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general population, oral, Acute - systemic effects: 2 mg/kg bw/day.
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
Industrial, inhalative, Long-term - systemic effects: 275 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 550 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 796 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 36 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 320 mg/kg bw/day.
general population, inhalative, Long-term - local effects: 33 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 33 mg/m ³ .
1-methoxy-2-propanol, CAS: 107-98-2
Industrial, inhalative (vapor), Long-term - local effects: 553,5 mg/m ³ .
Industrial, inhalative (vapor), Acute - systemic effects: 553,5 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 183 mg/kg bw/day.
Industrial, inhalative (vapor), Long-term - systemic effects: 369 mg/m ³ .
general population, inhalative (vapor), Long-term - systemic effects: 43,9 mg/m ³ .
general population, dermal, Long-term - systemic effects: 78 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 33 mg/kg bw/day.

PNEC

Substance
n-Butyl acetate, CAS: 123-86-4
sediment (freshwater), 0,981 mg/kg.
freshwater, 0,18 mg/l.
sewage treatment plants (STP), 35,6 mg/l.
sediment (seawater), 0,098 mg/kg.
soil, 0,09 mg/kg.
seawater, 0,018 mg/l.
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
freshwater, 0,635 mg/l.
sewage treatment plants (STP), 100 mg/l.
soil, 0,29 mg/kg.
sediment (seawater), 0,329 mg/kg.
sediment (freshwater), 3,29 mg/kg.
seawater, 0,064 mg/L.
1-methoxy-2-propanol, CAS: 107-98-2
freshwater, 10 mg/L.
seawater, 1 mg/L.
sewage treatment plants (STP), 100 mg/L.
soil, 4,59 mg/kg.
sediment (freshwater), 52,3 mg/kg sediment dw.
sediment (seawater), 5,2 mg/kg sediment dw.

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	For short-term contact: 0,4mm Nitrile rubber, >480 min (EN 374-1/-2/-3). 0,4mm Butyl rubber, >480 min (EN 374-1/-2/-3). In full contact: 0,4mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	characteristic
Odour threshold	not required
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 100
Flash point [°C]	32
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,1 - 1,2 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	50 - 60 s (ISO 2431:1993 6mm)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined

9.2 Other information

none

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SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

Reactions with acids, alkalies and oxidizing agents.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

Acids

Alkalies

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
n-Butyl acetate, CAS: 123-86-4
LD50, dermal, Rabbit: >14112 mg/kg (OECD 402).
LD50, oral, Rat: 10760 mg/kg (OECD 423).
LC50, inhalative, Rat: 23.4 mg/l (4h) (OECD 403).
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
LC0, inhalative, Rat: > 4345 ppm (6 h).
1-methoxy-2-propanol, CAS: 107-98-2
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: 4016 mg/kg.
LC50, inhalation (vapour), Rat: 27,596 mg/l 6 h.

Serious eye damage/irritation	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Skin corrosion/irritation	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Respiratory or skin sensitisation	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity — single exposure	Vapours may cause drowsiness and dizziness. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method
Specific target organ toxicity — repeated exposure	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Mutagenicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Reproduction toxicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Aspiration hazard	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.
General remarks	none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
n-Butyl acetate, CAS: 123-86-4
LC50, (96h), Pimephales promelas: 18 mg/l (OECD 203).
EC50, (72h), Desmodesmus subspicatus: 647.7 mg/l.
EC50, (48h), Daphnia magna: 44 mg/l.
IC50, Bacteria: 356 mg/l (40 h).
NOEC, Desmodesmus subspicatus: 200 mg/l.
2-Methoxy-1-methylethyl acetate, CAS: 108-65-6
LC50, (96h), Oncorhynchus mykiss: 134 mg/l (OECD 203).
EC50, (72h), Selenastrum capricornutum: > 1000 mg/l (OECD 201).
EC50, (48h), Daphnia magna: > 500 mg/l.
NOEC, (21d), Daphnia magna: ≥ 100 mg/l (OECD 202).
NOEC, Oryzias latipes: 47,5 mg/l (14 d) (OECD 204).
EC10, Bacteria: > 1000 mg/l (0,5 h) (ISO 8192).
1-methoxy-2-propanol, CAS: 107-98-2
LC50, (96h), Leuciscus idus: 6812 mg/L.
EC50, (48h), Daphnia magna: 23300 mg/L.
ErC50, (168h), Pseudokirchneriella subcapitata: > 1000 mg/L.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

None known.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080111*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1263

Inland navigation (ADN) 1263

Marine transport in accordance with IMDG 1263

Air transport in accordance with IATA 1263

14.2 UN proper shipping name

Transport by land according to ADR/RID Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

- Label



- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

- Label



Marine transport in accordance with IMDG

Paint, No dangerous goods, according IMDG 2.3.2.5 to max. 30 l (see 5.4.1.5.10) - "transport in compliance with 2.3.2.5 of the IDMG Code"

- EMS

F-E, S-E

- Label



Air transport in accordance with IATA Paint

- Label



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14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** < 500 g/l

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H336 May cause drowsiness or dizziness.

H226 Flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV@TWA = Threshold limit value – time-weighted average

TLV@STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)

STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

Modified position

SECTION 8 been added: Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

SECTION 8 been added: In full contact:

SECTION 8 been added: Butyl rubber, >480 min (EN 374-1/-2/-3).

SECTION 8 been added: Nitrile rubber, >480 min (EN 374-1/-2/-3).

SECTION 8 been added: For short-term contact:

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.

SECTION 10 been added: Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.



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