Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

2876

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

1.1 Product identifier

| Trade name | : | METALSTAR PANTONE 876 07 |
|-----------------|---|--------------------------|
| Material number | : | 076465RN0 |

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

| Company | : ECKART GmbH |
|----------------------------|--------------------------|
| | Guentersthal 4 |
| | 91235 Hartenstein |
| Telephone | : +499152770 |
| Telefax | : +499152777008 |
| E-mail address | : msds.eckart@altana.com |
| Responsible/issuing person | |

1.4 Emergency telephone number

NCEC: (contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Acute toxicity, Category 4, Oral, H302 Serious eye damage/eye irritation, Category 2A, H319 Reproductive toxicity, Category 2, H361d

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Globally Harmonized System of Classification and Labelling of Chemicals (GHS)







Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

Hazardous components which must be listed on the label

:

IdentificationCAS-No.copper7440-50-81-isopropyl-2,2-dimethyltrimethylene6846-50-0diisobutyrate

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

| Chemical name | CAS-No. EINECS-No. | Classification and labelling | Concentration[%] |
|---|-------------------------|--|------------------|
| copper | 7440-50-8 231-159-6 | Acute Tox.;4;H302 ;2A;H319 Aquatic Acute;1;H400 Aquatic Chronic;1;H410 | 25 - 50 |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 265-148-2 | Asp. Tox.;1;H304 | 10 - 20 |
| zinc | 7440-66-6 231-175-3 | Aquatic Acute;1;H400 Aquatic Chronic;1;H410 | 2,5 - 10 |
| Petroleum resins | 64742-16-1 265-116-8 | Aquatic Chronic;4;H413 | 2,5 - 10 |
| 1-isopropyl-2,2- | 6846-50-0 | Repr.;2;H361d | 0,25 - 1 |





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

| dimethyltrimethylene diisobutyrate | 229-934-9 | Aquatic Chronic;3;H412 | |
|---------------------------------------|-----------------------|---|----------|
| octadecylamine | 124-30-1 204-695-3 | ;2;H315 ;1;H318 STOT RE;2;H373 Asp. Tox.;1;H304 Aquatic Acute;1;H400 Aquatic Chronic;1;H410 | 0,25 - 1 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | : Move the victim to fresh air. | |
|-------------------------|---|--|----------------------|
| | | Move out of dangerous area. Show this safety data sheet to t Do not leave the victim unatten | |
| If inhaled | : | Remove to fresh air. If unconscious, place in recover advice. If symptoms persist, call a phys | |
| In case of skin contact | : | Wash off immediately with soap | and plenty of water. |
| In case of eye contact | : | Immediately flush eye(s) with p Remove contact lenses. Keep eye wide open while rinsi If eye irritation persists, consult | ng. |
| If swallowed | : | Induce vomiting immediately ar | nd call a physician. |
| Page 4 / 20 | | 102000029154 | A member of C ALTANA |



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
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Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | : | Special powder against metal fi | re, Dry sand, ABC powder |
|--|-----|--|---|
| Unsuitable extinguishing media | : | Water, High volume water jet, C | Carbon dioxide (CO2) |
| 5.2 Special hazards arising from | the | e substance or mixture | |
| Specific hazards during firefighting | : | Do not allow run-off from fire fig courses. | hting to enter drains or water |
| 5.3 Advice for firefighters | | | |
| Special protective equipment for firefighters | : | Wear self-contained breathing a necessary. | apparatus for firefighting if |
| Further information | : | Standard procedure for chemic | al fires. |
| | | Collect contaminated fire exting must not be discharged into dra contaminated fire extinguishing accordance with local regulation | ins. Fire residues and water must be disposed of in |
| Page 5 / 20 | | 102000029154 | A member of C ALTANA |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-----------------------------------|---|-----------------------------|
| | measures that are appropriate to loc surrounding environment. | al circumstances and the |
| SECTION 6: Accidental releas | e measures | |
| 6.1 Personal precautions, protect | ive equipment and emergency proced | dures |
| Personal precautions | : Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. | |
| 6.2 Environmental precautions | | |
| Environmental precautions | : The product should not be allowed to courses or the soil. | o enter drains, water |
| | Prevent product from entering drains Prevent further leakage or spillage if If the product contaminates rivers an respective authorities. | safe to do so. |
| 6.3 Methods and materials for co | ntainment and cleaning up | |
| Methods for cleaning up | : Use mechanical handling equipment | t. |
| | Pick up and transfer to properly labelled containers. Do not flush with water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). | |
| | Soak up with inert absorbent materia acid binder, universal binder, sawdu Keep in suitable, closed containers f | st). |
| Page 6 / 20 | 102000029154 | A member of C ALTANA |



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Advice on safe handling | : | Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. |
|---|---|--|
| Advice on protection against fire and explosion | : | Keep away from heat and sources of ignition. No smoking. |
| | | Normal measures for preventive fire protection. |
| Hygiene measures | : | General industrial hygiene practice. |
| | | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. |

7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage areas and containers | : Keep away from sources of igr store near combustible materia closed in a cool, well-ventilated quality, do not store in heat or | als. Keep containers tightly d place. To maintain product |
|---|---|---|
| | Keep container tightly closed in place. Containers which are op resealed and kept upright to pr precautions. Electrical installat comply with the technological s | bened must be carefully revent leakage. Observe label ions / working materials must |
| Further information on storage conditions | : Protect from humidity and wate | er. |
| Page 7 / 20 | 102000029154 | A member of C ALTANA |





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 Print Date 28. | |
|--------------------------|---|---------------------------|
| | | |
| | | |
| Advice on common storage | : Keep away from oxidizing agents, str strongly acid materials in order to ave Do not store together with oxidizing a | oid exothermic reactions. |
| Dampness | : Keep in a dry, cool and well-ventilate | d place. |
| Other data | : No decomposition if stored and appli | ed as directed. |
| | | |

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Germany:

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Update | Basis |
|---|---|-------------------------------------|--|------------|--------------|
| copper | 7440-50-8 | AGW (inhalable fraction) | 1 mg/m3 | | DE TRGS 900 |
| Distillates (petroleum), hydrotreated middle | 64742-46- 7 | AGW | 600 mg/m3 | 2009-02-16 | DE TRGS 900 |
| Peak-limit: excursion factor (category) | | 2;(II) | | | |
| Further information | | | limit for hydrocarbo ssion for dangerous) | | also No. 2.9 |
| zinc | 7440-66-6 | AGW (Inhalable fraction) | 10 mg/m3 | 2021-07-02 | DE TRGS 900 |
| | Peak-limit: excursion factor (category) | | | | |
| | | | 00000154 | | |

| Page 8 / 20 | 102000029154 | A member of C ALTANA |
|-------------|--------------|----------------------|
|-------------|--------------|----------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

| Further information | | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
|---|-----------|---|---|-------------|--|
| zinc | 7440-66-6 | AGW (Alveolate 1,25 mg/m3 2021-07-02 DE TF fraction) | | DE TRGS 900 | |
| Peak-limit: excursion factor (category) | | 2;(II) | | | |
| Further information | | | ompliance with th no risk of harming | | |

8.2 Exposure controls

| Personal protective eq | uipment | |
|------------------------|---------|--|
| Eye protection | : | Safety glasses |
| | : | Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. |
| Hand protection | | |
| Material | : | Solvent-resistant gloves (butyl-rubber) |
| Remarks | : | Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection |

| Page 9 / 20 | 102000029154 | A member of C ALTANA |
|-------------|--------------|-----------------------------|
|-------------|--------------|-----------------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

| sion 6.0 | | Revision Date 27.02.2023 | Print Date 28.02.2 |
|-----------------------------|-------|---|------------------------|
| | | | |
| | | Skin should be washed after contact. | |
| | | The suitability for a specific workplace with the producers of the protective gl | |
| | : | The suitability for a specific workplace with the producers of the protective gl | |
| Skin and body protection | : | Impervious clothing | |
| | | Choose body protection according to concentration of the dangerous substa | |
| Respiratory protection | | Use suitable breathing protection if wo requires. | orkplace concentration |
| | | Equipment should conform to EN 143 | 87 |
| Environmental exposure c | ontro | | |
| General advice | : | The product should not be allowed to courses or the soil. | enter drains, water |
| | : | Prevent product from entering drains. Prevent further leakage or spillage if s | afe to do so. |
| | | If the product contaminates rivers and respective authorities. | |
| CTION 9: Physical and ch | emi | cal properties | |
| Information on basic physic | | | |

| Page 10 / 20 | 102000029154 | A member of C ALTANA |
|--------------|------------------|-----------------------------|
| Odour | : characteristic | |
| Colour | : gold | |
| Appearance | : liquid | |

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|---------------------------------------|---------------------------|-----------------------|
| | | |
| рН | : substance/mixture is no | on-soluble (in water) |
| Freezing point | : No data available | |
| Boiling point/boiling range | : > 100 °C | |
| Flash point | : >100 °C | |
| Bulk density | : No data available | |
| Flammability (solid, gas) | : No data available | |
| Auto-flammability | : No data available | |
| Upper explosion limit | : No data available | |
| Lower explosion limit | : No data available | |
| Vapour pressure | : No data available | |
| Density | : No data available | |
| Water solubility | : No data available | |
| Miscibility with water | : immiscible | |
| Solubility in other solvents | : No data available | |
| Partition coefficient: n-octanol/wate | er : No data available | |
| Ignition temperature | : No data available | |
| Thermal decomposition | : No data available | |

| Other information | |
|----------------------|---------------------|
| Flow time | : No data available |
| Viscosity, kinematic | : >22 mm2/s (40 °C) |
| Viscosity, dynamic | : No data available |
| Viscosity | |

9.2 Other information

No data available

| Page 11 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

| Hazardous reactions | : Stable under recommended storage conditions. |
|-------------------------------------|---|
| | No decomposition if stored and applied as directed. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | : Do not allow evaporation to dryness. |
| | No data available |
| 10.5 Incompatible materials | |
| Materials to avoid | : No data available |
| 10.6 Hazardous decomposition p | roducts |
| Hazardous decomposition products | : |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Other information

| Page 12 / 20 | 102000029154 | A member of 🜔 ALTANA |
|--------------|--------------|----------------------|
| | | |

hydrocarbons (smoke).

: Carbon monoxide, carbon dioxide and unburned





Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

Components:

copper :

Acute oral toxicity

: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

Product

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product

May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

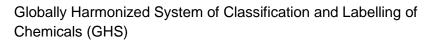
Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

| Page 13 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|



METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

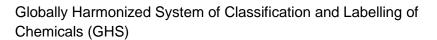
No data available

SECTION 12: Ecological information

12.1 Toxicity

| <u>Components:</u> copper (7440-50-8) : | | | |
|--|------|------------------------------------|-----------------------------|
| M-Factor Ecotoxicology Assessment | : | 10 | |
| Short-term (acute) aquatic hazard | : | Very toxic to aquatic life. | |
| Long-term (chronic) aquatic hazard zinc (7440-66-6) : | : | Very toxic to aquatic life with lo | ng lasting effects. |
| Ecotoxicology Assessment | | | |
| Short-term (acute) aquatic hazard | : | Very toxic to aquatic life. | |
| Long-term (chronic) aquatic hazard | : | Very toxic to aquatic life with lo | ng lasting effects. |
| Petroleum resins (64742-16- | 1) : | : | |
| ge 14 / 20 | | 102000029154 | A member of C ALTANA |





METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

Ecotoxicology Assessment

| : May cause long lasting harmful effects to aquatic life. |
|---|
| ethylene diisobutyrate (6846-50-0) : |
| : (Daphnia (water flea)): 2,46 mg/l |
| : Harmful to aquatic life with long lasting effects. |
| : 10 |
| : Very toxic to aquatic life. |
| : Very toxic to aquatic life with long lasting effects. |
| |

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

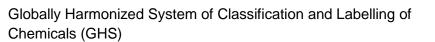
No data available

12.6 Other adverse effects

Product:

| Page 15 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|







METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-----------------------------------|--|-----------------------|
| Additional ecological information | : An environmental hazard cannot be exclud unprofessional handling or disposal., Very with long lasting effects. | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. |
|------------------------|--|
| Contaminated packaging | : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. |

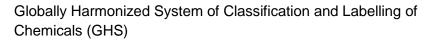
SECTION 14: Transport information

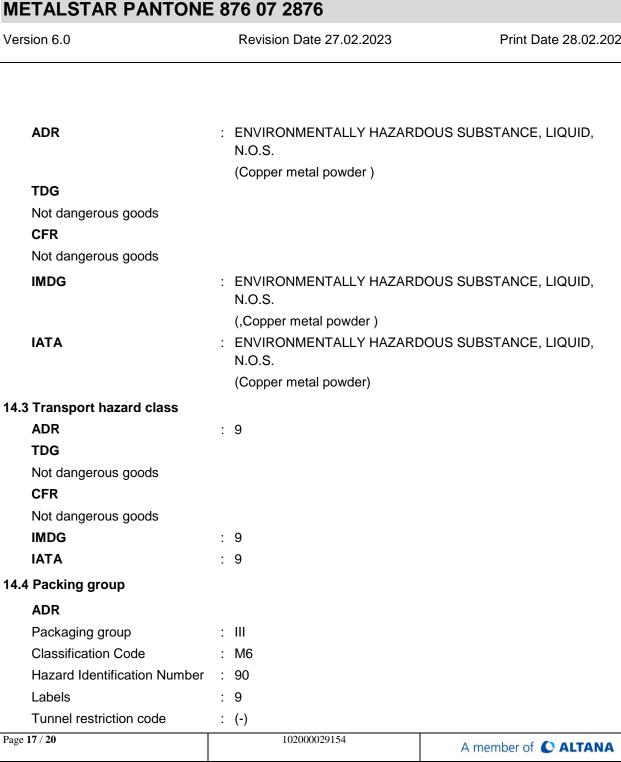
14.1 UN number

| ADR | : | 3082 |
|---------------------|---|------|
| TDG | | |
| Not dangerous goods | | |
| CFR | | |
| Not dangerous goods | | |
| IMDG | : | 3082 |
| ΙΑΤΑ | : | 3082 |

14.2 Proper shipping name

| Page 16 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|







Print Date 28.02.2023



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

| | - | | |
|------|---|---|---------------------------|
| | Packaging group | : | III |
| | Labels | : | 9 |
| | ΙΑΤΑ | | |
| | Packing instruction (cargo aircraft) | : | 964 |
| | Packing instruction (passenger aircraft) | : | 964 |
| | Packing instruction (LQ) | : | Y964 |
| | Packaging group | : | III |
| | Labels | : | 9 |
| 14.5 | 5 Environmental hazards | | |
| | ADR | : | Environmentally hazardous |
| | | | |

IMDG : Marine pollutant

14.6 Special precautions for user

For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

| Page 18 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

| Version 6.0 | Revision Date 27.02.2023 | Print Date 28.02.2023 |
|-------------|--------------------------|-----------------------|
| | | |

SECTION 15: Regulatory information

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

| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : Not applicable |
|--|---|
| REACH - List of substances subject to authorisation (Annex XIV) | : Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : Not applicable |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Banned and/or restricted (Distillates (petroleum), hydrotreated middle; Gasoil — unspecified) (1-isopropyl-2,2- dimethyltrimethylene diisobutyrate) (manganese neodecanoate) (Distillates (petroleum), solvent- refined middle; Gasoil — unspecified) |

15.2 Chemical safety assessment

No data available

| Page 19 / 20 | 102000029154 | A member of C ALTANA |
|--------------|--------------|-----------------------------|
|--------------|--------------|-----------------------------|



Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

METALSTAR PANTONE 876 07 2876

Version 6.0

Revision Date 27.02.2023

Print Date 28.02.2023

SECTION 16: Other information

| Full text of H-Statements | |
|---------------------------|---|
| H302 : | Harmful if swallowed. |
| H304 : | May be fatal if swallowed and enters airways. |
| H315 : | Causes skin irritation. |
| H318 : | Causes serious eye damage. |
| H319 : | Causes serious eye irritation. |
| H361d : | Suspected of damaging the unborn child. |
| H373 : | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 : | Very toxic to aquatic life. |
| H410 : | Very 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. |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

| Page 20 / 20 | 102000029154 | A member of 🜔 ALTANA |
|--------------|--------------|----------------------|
|--------------|--------------|----------------------|

