

## REACH-FORSKRIFTEN OG INNHOLD I DOREME-FARGER

ETTERLEVELSE AV DE NYE INNSTRAMNINGENE I REACH-FORSKRIFTEN SIST VEDTATT ENDRET 19. JANUAR 2022.

REACH står for Registration, Evaluation, Authorisation and Restriction of Chemicals, og omhandler altså regulering, vurdering, godkjenning og begrensning av kjemikalier.

Det europeiske kjemikalierregelverket REACH er en EU-forordning som er gjeldende i Norge gjennom EØS-avtalen. Regelverket krever at importører eller produsenter av kjemikalier må dokumentere stoffets egenskaper før det kan importeres eller produseres. REACH omfatter også detaljerte retningslinjer for risikovurdering av kjemikalier.

Kravene til dokumentasjon øker med produksjonsmengde. For alle stoffer som produseres eller importeres i mengder mellom 1 og 10 tonn/år pr. produsent kreves dokumentasjon på stoffets egenskaper, stoffets klassifisering, informasjon om bruk og veiledning om sikker bruk.

Nor Liner Scandinavia AS importere svært små mengder kjemikalier per år, et fåtalls kilo tilsammen. Kjemikaliene vi omsetter finnes stort sett i farger til PMU og microblading. Likevel er våre farger fra 1. mars grundig analysert og godkjent i henhold til aller siste krav i REACH-forskriften.

Reach-forskriften vil forby innholdet av ca 4000 stoffer, men kun et mindretall av disse stoffene er til nå funnet i skjønnhetsfarger og tatoveringsblekk. Likevel - for tatoveringsblekk - antar man at de nye innstramningen i forskriften i 2022 vil forby mer enn to tredjedeler av dagens fargene som brukes.

Vår leverandør av DoreME PMU-farger er Micro Tec. De har utført tester av et tilfeldig og godt utvalg av de vanligste DoreME-fargene i forbindelse med de nye reguleringene i REACH-forskriften. Alle farger i DoreMe-serien har samme grunninnhold, det er kun forskjellige blandingsforhold mellom et fåtall grunnpigmenter for å oppnå de forskjellige fargene, som utgjør forskjellen. Konserveringsmidler, alkoholtyper, konsistensmidler og så videre er de samme i alle fargene. Utvalget av farger som er testet er derfor representativt for alle fargene i DoreME-serien.

Testene har undersøkt på frie aminer, direkte ulovelige kjemikalier, tungmetaller, polyaromatiske hydrokarboner og mikroorganismer (sterilitet).

Alle fargene Norliner importerer og som er testet av det tyske er blitt 100% godkjent. De er 100% i samsvar med kravene i REACH.

Testene og godkjenningen er utført 28. februar 2022 av Chemical Technological Laboratory (CTL) GmbH i Tyskland, deres adresse er: Krackser Strass 12, 33659 Bleifeld, Germany. Testene og resultatene av disse kan fremskaffes for spesielt interessert, eller hvis en myndighetsenhet skulle ønske det.

Collection of lists measured in part 2, part 4, part 5 and part 6.

**Part 2: Free amines**

*list according to Regulation 1907/2006 Annex XVII (Reach) of the European Parliament and the Council*

*Method: Extraction with MeOH, analysis with GC/MS.*

*Limit: 5 ppm; limit of quantitation: 5 ppm.*

|                                       |                               |
|---------------------------------------|-------------------------------|
| 4-Aminobiphenyl**                     | Benzidine**                   |
| 4-Chloro-o-toluidine**                | 2-Naphtylamine**              |
| 4-o-Tolylazo-o-toluidin**             | 5-Nitro-o-toluidine**         |
| 4-Chloroaniline**                     | 4-Methoxy-m-phenyldiamine**   |
| 4,4'-Methylenedianiline**             | 3,3'-Dichlorobenzidine**      |
| 3,3'-Dimethoxybenzidine**             | 4,4'-Bi-o-Toluidin**          |
| 4,4'-Methylenedi-o-toluidine**        | 6-Methoxy-m-toluidine**       |
| 4,4'-Methylenebis-(2-chloroaniline)** | 4-Methyl-m-phenylenediamine** |
| o-Anisidine**                         | 4-Aminoazobenzene**           |
| 2-Methyl-p-phenyldiamin**             | 4-Amino-3-florophenol**       |
| 4,4'-Oxydianiline**                   | 4,4'-Thiodianiline**          |
| o-Toluidine**                         | 2,4,5-Trimethylaniline**      |
| p-Phenyldiamine**                     | Aniline**                     |
| p-Toluidine**                         | Sulfanilic acid**             |
| 2,6-Xylidine                          | 6-Amino-2-ethoxynaphtaline    |
| 2,4-Xylidine                          |                               |

\*\*soluble

**Part 3: Screening incl. testing for prohibited preservatives\***

*List of tested preservatives.*

*Extraction in methanol, analysis with GC/MS and HPLC/DAD.*

|                              |                                                  |
|------------------------------|--------------------------------------------------|
| Phenol                       | 2-Phenylphenol (OPP)                             |
| Benzoic acid                 | Benzisothiazolinone (BIT)                        |
| 2-phenoxyethanol             | Chloramin T                                      |
| 4-Chlor-3-methylphenol (CMK) | octhilinone (ISO); 2-octyl-2H-isothiazol-3-one   |
| Formaldehyde                 | Triclosan                                        |
| Acetaldehyde                 | 2-Thiocyanomethylthio)benzothiozol (TCMTB) Busan |



**Part 4: Heavy metals**

**Methods:**

*Total digestion acc. ASU K 84.00.29:2016-07; ICP-OES analysis DIN EN ISO 11885:2009-09.*

*Soluble: Prior, G. (2014), Tattoo Inks: Analysis, Pigments, Legislation. Berlin: epubli. CTL Method 2, p 83.*

*Chromium(VI): DIN EN ISO 17075-1:2017-05.*

*Limit of quantitation: equal or below the limit respectively.*

| Metal              | limit    |
|--------------------|----------|
| Mercury            | 0.5 ppm  |
| Nickel             | 5 ppm    |
| Organometallic tin | 0.5 ppm  |
| Antimony           | 0.5 ppm  |
| Arsenic            | 0.5 ppm  |
| Barium**           | 500 ppm  |
| Cadmium            | 0.5 ppm  |
| Chromium as Cr(VI) | 0.5 ppm  |
| Cobalt             | 0.5 ppm  |
| Copper**           | 250 ppm  |
| Zinc**             | 2000 ppm |
| Lead               | 0.7 ppm  |
| Selenium           | 2 ppm    |

\*\*soluble

**Part 5: Polyaromatic hydrocarbons**

*Method: AFPS GS 2019:01 PAK, extraction in toluene / acetonitrile*

*Limit: 0.5 ppm / BaP 5 ppb;*

*limit of quantitation: 0.05 ppm / BaP 5 ppb*

|                      |                       |                        |
|----------------------|-----------------------|------------------------|
| Naphthalene          | Acenaphthalene        | Acenaphthene           |
| Fluorene             | Phenanthrene          | Anthracene             |
| Fluoranthene         | Pyrene                | Benzo[a]anthracene     |
| Chrysene             | Benzo[b]fluoranthene  | Benzo[k]fluoranthene   |
| Benz[a]pyrene        | Dibenzo[ah]anthracene | Indeno[1,2,3,cd]pyrene |
| Benzo[ghi]perylene   | Benzo[j]fluoranthene  | Benzo[e]pyrene         |
| Cyclopenta[cd]pyrene | Dibenzo[al]pyrene     | Dibenzo[ae]pyrene      |
| Dibenzo[ai]pyrene    | Dibenzo[ah]pyrene     | 1-Methylpyrene         |
| Benzo[c]fluorene     | 5-Methylchrysene      |                        |



**wir helfen, beraten und prüfen**  
*we assist, advise and test*

**Part 6: Sterility**

*(microbiological test)*

Limit of quantitation: < 10 CFU/g

*Test conducted by an accredited external laboratory.*

|                                                         |                           |
|---------------------------------------------------------|---------------------------|
| <b>Spores of aerobes spore-forming, quantitative*</b>   | In-house method           |
| <b>Spores of anaerobes spore-forming, quantitative*</b> | In-house method           |
| <b>Bacillus cereus presumptive, quantitative</b>        | §64 LFGB 00.00-33, mod.   |
| <b>Sulphite reducing clostridia, quantitative</b>       | §64 LFGB 06.00-39, mod.   |
| <b>Total viable count, aerobes mesophil 30°C</b>        | §64 LFGB 00.00-88/2, mod. |
| <b>Total viable count, anaerobes mesophil 30°C*</b>     | In-house method           |
| <b>Pseudomonas sp., quantitative</b>                    | §64 LFGB 06.00-43, mod.   |

Legende: Fd. = Faden / Thread, RV = Reißverschluss / Zipper, BG= Bestimmungsgrenze / Detection limit, n.n.= nicht nachweisbar / *not detectable*.

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|                         |                                                |             |                          |             |                            |
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| [Managing Director]     | Kerry-Luise Prior                              | [Fax]       | +49 521 446 51 52        |             | Konrad-Adenauer-Platz 1    |
| [Registered office in]  | Bielefeld                                      | [Email]     | sekretariat@ctl-mails.de |             | 33330 Gütersloh, GERMANY   |
| [Register of Companies] | AG Bielefeld, HRB 35-412                       | [Homepages] | ctl-bielefeld.de         | [SWIFT/BIC] | WELADED 1 GTL              |
| [VAT ID No]             | DE 176 26 5000                                 |             | tattoolab.eu             | [IBAN]      | DE 87 47850065 000 4005345 |



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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] 15 Java  
[Article no] CONC 15  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/7, 400435/8, 400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

i.V. Veit Houben  
Manager chemical-analytical laboratory

**[GB]** The denoted results are only valid for the tested sample. Without our consent no single part of this report is allowed to be forwarded to third parties.

1 / 1

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| [Register of Companies] | AG Bielefeld, HRB 35-412                       |             |                                  | [IBAN]      | DE 87 47850065 000 4005345                                                 |
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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] 55 Espresso  
[Article no] CONC 55  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/7, 400435/8, 400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

  

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

  

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

i.V. Veit Houben  
Manager chemical-analytical laboratory

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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] 235 Choc Choc  
[Article no] Liquid 235  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/7, 400435/8, 400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

i.V. Veit Houben  
Manager chemical-analytical laboratory

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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] Deep Brown  
[Article no] Perfect Brow  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/6, 400435/7, 400435/8, 400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

i.V. Veit Houben  
Manager chemical-analytical laboratory

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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] Medium Brown  
[Article no] Perfect Brow  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/6, 400435/7, 400435/8,  
400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

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Manager chemical-analytical laboratory

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[Order date] 28.02.2022  
[Service date] 01.03.2022

### Product Certificate of Analysis

[Article description] Permanent Make-Up  
[Brand] DOREME  
[Colour name] Red Brown  
[Article no] Perfect Brow  
[Related CTL-no] 400435/1, 400435/10, 400435/2, 400435/3, 400435/6, 400435/7, 400435/8, 400435/9



Tests performed according to Regulation 1907/2006 Annex XVII (REACH) of the European Parliament and the Council

| Part 1: Document Check                                                                                                                                                                  | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Based on the formulations, it is ruled out that prohibited substances are deliberately used in the specified colour                                                                     |        |
| All ingredients meet the conditions of Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) | pass   |

| Part 2-5: Chemical Analysis *                                                                                                                                                                                                                                                                                                                        | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Lab-analysis of free amines, screening including preservatives and phthalates, heavy metals and PAHs                                                                                                                                                                                                                                                 |        |
| The performed tests showed no chemical or element above the required limit specified in Regulation 1907/2006 of the European Parliament and of the Council concerning the Regulation, Authorisation and Restriction of Chemicals (REACH) - concentrations may be calculated based on tests performed of ingredients in combination with formulations | pass   |

| Part 6: Sterility Test *                               | Result |
|--------------------------------------------------------|--------|
| A broad variety of biological contamination is tested  |        |
| No biological contamination was detected in the sample | pass   |

\* for further details, please refer to the related test reports (CTL-no).

Certificate valid until: 22.02.24

Bielefeld, 01.03.2022

i.V. Veit Houben  
Manager chemical-analytical laboratory

**[GB]** The denoted results are only valid for the tested sample. Without our consent no single part of this report is allowed to be forwarded to third parties.

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|                         |                                                |             |                                   |             |                                                                            |
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