

USE 5: Verification of DCC PY.34 & PR.104 RMM and OC Summary of Blood lead, Air Monitoring and RPE

DATE: 13.09.2016

Dear Customer and Down Stream User,

We are pleased to inform you that DCC has successfully applied for the continued use of Pigment Yellow 34 and Pigment Red 104. In order to ensure safe handling of these pigments, the European Commission has included the assessment of biomonitoring data, air monitoring data and RPE effectiveness by the Authorisation holder.

As per Article 3(e) of the final EC decision, C(2016) 5644 of 07.09.2016, all customers and downstream users are obligated to provide blood lead information and air monitoring results for chromium to ECHA. DCC Maastricht B.V. OR will receive data from ECHA as per Article 3(f) for the purpose of preparing a review reports.

In order to complete your notification to ECHA, please refer to Table 1 which can be found in each eSDS to identify the worker functions and the activities that are covered per use under DCC's Authorisation. Table 1 indicates the specific activities that a worker is permitted to perform under the specified technical and organisational conditions. The table below summarises the uses and the assigned Authorisation numbers for DCC PY.34 and PR.104.

| DCC eSDS (Use) | Description of USE for Paint Sector | DCC PY.34 Authorisation Numbers: | DCC PR.104 Authorisation Numbers: |
|----------------|--|----------------------------------|-----------------------------------|
| Use 1 | Use: distribution and mixing of pigment powder in an industrial environment into solvent-based paints for non-consumer use | REACH/16/3/0 | REACH/16/3/6 |
| Use 2 | Use: industrial application of paints on metal surfaces (such as machines vehicles, structures, signs, road furniture, coil coating, etc.) | REACH/16/3/1 | REACH/16/3/7 |
| Use 3 | Use: professional, non-consumer application of paints on metal surfaces (such as machines, vehicles, structures, signs, road furniture, etc.) or as road marking | REACH/16/3/2 | REACH/16/3/8 |

| DCC eSDS (Use) | Description of USE for Plastic Sector | DCC PY.34 Authorisation Numbers: | DCC PR.104 Authorisation Numbers: |
|----------------|--|----------------------------------|-----------------------------------|
| Use 4 | Use: distribution and mixing pigment powder in an industrial environment into liquid or solid premix to colour plastic/plasticised articles for non-consumer use | REACH/16/3/3 | REACH/16/3/9 |
| Use 5 | Use: industrial use of solid or liquid colour premixes and pre-compounds containing pigment to colour plastic or plasticised articles for non-consumer use | REACH/16/3/4 | REACH/16/3/10 |
| Use 6 | Use: professional use of solid or liquid colour premixes and pre-compounds containing pigment in the application of hot melt road marking | REACH/16/3/5 | REACH/16/3/11 |

DCC recommends using the attached form **for each employee** involved with DCC PY.34 and/or PR.104 to verify and monitor worker exposures. This form can be submitted to ECHA and to DCC (hschulpen@dominioncolour.nl) by March, 31st of each year, summarising the results of the previous year.

If you have any questions regarding the use of DCC PY.34 and/or PR.104, please feel free to contact your DCC representative.

Thank you for your continued support.

**USE 5: Verification of DCC PY.34 & PR.104 RMM and OC
Summary of Blood lead, Air Monitoring and RPE**

I. General Information:

| | | | |
|---|--|------------------|--|
| Company Name: | | Contact Name: | |
| Address: | | Contact Phone #: | |
| Postal Code | | Contact e-mail: | |
| City, Country: | | Date: | |
| # Workers handling/exposed to PY.34 and/or PR.104 | | | |
| Annual volume PY.34/PR.104 used: | | | |
| Comments: | | | |

II. Company specific: Use and Legal Requirements

| REACH Authorisation Number: Tick the boxes that apply to your company | % PY.34/PR.104 in product (ranges are acceptable, but within ± 10% of the contents) | Member State Regulation related to Health Surveillance | Health Surveillance | | Air Monitoring for Chromium |
|--|---|---|--|---|---|
| | | | Action Level ¹ | Suspension Level ² | Comments: |
| PY.34 <input type="checkbox"/> USE 1: REACH/16/3/0 <input type="checkbox"/> USE 4: REACH/16/3/3 <input type="checkbox"/> USE 2: REACH/16/3/1 <input type="checkbox"/> USE 5: REACH/16/3/4 <input type="checkbox"/> USE 3: REACH/16/3/2 <input type="checkbox"/> USE 6: REACH/16/3/5 | | <input type="checkbox"/> Directive 98/24/EC <input type="checkbox"/> Directive 2004/37/EC <input type="checkbox"/> Other. | <input type="checkbox"/> 40 µg lead/100 ml blood <input type="checkbox"/> Other. | <input type="checkbox"/> 70 µg lead/100 ml blood <input type="checkbox"/> Other. | Please provide Member State Regulation for Air Monitoring: Please provide Sampling Procedure for air monitoring: Please provide analytical method for air monitoring: |
| PR.104 <input type="checkbox"/> USE 1: REACH/16/3/6 <input type="checkbox"/> USE 4: REACH/16/3/9 <input type="checkbox"/> USE 2: REACH/16/3/7 <input type="checkbox"/> USE 5: REACH/16/3/10 <input type="checkbox"/> USE 3: REACH/16/3/8 <input type="checkbox"/> USE 6: REACH/16/3/11 | | If other apply, please specify: | If other apply, please specify: Please provide Sampling test Method for Blood Lead: | | |

¹ Action level: triggers employer to carry out investigation, review control measures and take steps to reduce employee's blood lead concentration below the action level so far as reasonably practicable

² Suspension level: concentration at which employees are normally taken off work which exposes them to lead. Return to work/modification of work exposure is based on Doctor's recommendations

USE 5: Verification of DCC PY.34 & PR.104 RMM and OC Summary of Blood lead, Air Monitoring and RPE

III. Worker / Employee specific

Table 1. Overview of tasks per function for Use 5 (ES 7, 9)

| Company: | | | Employee (internal) Id ³ : | | | Approximate volume handled by employee over last 6-12 months: | | | Approximate volume handled by employee/per day: | | | | | |
|---|----------------------------------|--|---|---|------------------------------------|---|--|-----------|---|---------------|----------------------|--------------|---------------------------|-----------------------------------|
| Comments: | | | <input type="checkbox"/> Smoker <input type="checkbox"/> Non-smoker | | | | | | | | | | | |
| Description of Worker Functions and Tasks | | | Summary of RMM for USE 5 | | | Verification of RMM | | | Results of Monitoring Programs | | | | | |
| Function | Workplace instruction card (WIC) | Tasks (description of Contributing Scenario) | Technical RMM | | | Organisational RMM | RPE | Site RMM | Max. hours/week | Type RPE used | Blood lead Testing | | Personal Air Monitoring | |
| | | | A. Containment of source | B. Personal enclosure (PE)/ segregation (SEG) | C. Local exhaust ventilation (LEV) | Maximum hours per week | Minimum Respiratory protective equipment (APF ⁴) | A, B or C | hours | APF | µg lead/100 ml blood | Date of test | pigment µg/m ³ | Cr µg/m ³ ⁵ |
| Operator | WIC30 | <input type="checkbox"/> Charging/discharging of coloured plastic granules | | | Y | 12 | - | | | | | | | |
| | | <input type="checkbox"/> Mixing coloured plastic granules in closed mixing vessel | Y | | | 9 | - | | | | | | | |
| | | <input type="checkbox"/> Production of plastic articles by extrusion and injection moulding or other processes | Y | Y (SEG) | | 21 | - | | | | | | | |
| | | Total | | | | 40⁶ | | | | | | | | |
| General worker # 1 | WIC31 | <input type="checkbox"/> Delivery, storage and handling of coloured plastic granules | | | | 10 | - | | | | | | | |
| | | <input type="checkbox"/> Delivery, storage and handling of packed plastic premix or pre-compound | Y | | | 10 | - | | | | | | | |

³ Only list non-confidential details. Personal data to be maintained by the customer/downstream user.

⁴ Level of respiratory protection that can realistically be expected to be achieved in the workplace by 95% of adequately trained and supervised wearers using a properly functioning and correctly fitted respiratory protective device.

⁵ The exposure related to chromium can be calculated based on a general 15% Cr-content of PY.34/PR.104

⁶ The limit value for the two pigments is based on an exposure duration of 40 hours per working week. Therefore the maximum duration for any function is 40 even though for this function the summed duration per task can be over 40 hours

**USE 5: Verification of DCC PY.34 & PR.104 RMM and OC
Summary of Blood lead, Air Monitoring and RPE**

| Company: | | | Employee (internal) Id³: | | | | | | Approximate volume handled by employee over last 6-12 months: | | | | | | |
|--|----------------------------------|---|--|--|------------------------------------|----------------------------|--|-----------|--|---------------|----------------------|--------------|---------------------------|-----------------------------------|--------------|
| Comments: | | | <input type="checkbox"/> Smoker <input type="checkbox"/> Non- smoker | | | | | | Approximate volume handled by employee/per day: | | | | | | |
| Description of Worker Functions and Tasks | | | Summary of RMM for USE 5 | | | Verification of RMM | | | Results of Monitoring Programs | | | | | | |
| Function | Workplace instruction card (WIC) | Tasks (description of Contributing Scenario) | Technical RMM | | | Organisational RMM | RPE | Site RMM | Max. hours/week | Type RPE used | Blood lead Testing | | Personal Air Monitoring | | |
| | | | A. Containment of source | B. Personal enclosure (PE) / segregation (SEG) | C. Local exhaust ventilation (LEV) | Maximum hours per week | Minimum Respiratory protective equipment (APF ⁴) | A, B or C | hours | APF | µg lead/100 ml blood | Date of test | pigment µg/m ³ | Cr µg/m ³ ⁵ | Date of Test |
| | | <input type="checkbox"/> Transfer of articles and single coloured granules (non-dedicated facility) or | Y | - | | 15 | 10 | | | | | | | | |
| | | <input type="checkbox"/> Transfer of articles and single coloured granules (dedicated facility) | Y | Y (SEG) | | 12 | - | | | | | | | | |
| | | <input type="checkbox"/> Charging/discharging of coloured plastic premix or pre-compound or | Y | | | 6 | 10 | | | | | | | | |
| | | <input type="checkbox"/> Transfer of mixed coloured granules and articles | Y | | | 12 | - | | | | | | | | |
| | | Total | | | | 38⁷ | | | | | | | | | |

⁷ The limit value for the two pigments is based on an exposure duration of 40 hours per working week. Therefore the maximum duration for any function is 40 even though for this function the summed duration per task can be over 40 hours

**USE 5: Verification of DCC PY.34 & PR.104 RMM and OC
Summary of Blood lead, Air Monitoring and RPE**

| Company: | | | Employee (internal) Id ⁸ : | | | | Approximate volume handled by employee over last 6-12 months: | | | | | | | | |
|---|----------------------------------|---|--|--|------------------------------------|------------------------|---|-----------|-----------------|--------------------------------|----------------------|--------------|---------------------------|------------------------------------|--------------|
| Comments: | | | <input type="checkbox"/> Smoker <input type="checkbox"/> Non- smoker | | | | Approximate volume handled by employee/per day: | | | | | | | | |
| Description of Worker Functions and Tasks | | | Summary of RMM for USE 5 | | | | Verification of RMM | | | Results of Monitoring Programs | | | | | |
| Function | Workplace instruction card (WIC) | Tasks (description of Contributing Scenario) | Technical RMM | | | Organisational RMM | RPE | Site RMM | Max. hours/week | Type RPE used | Blood lead Testing | | Personal Air Monitoring | | |
| | | | A. Containment of source | B. Personal enclosure (PE) / segregation (SEG) | C. Local exhaust ventilation (LEY) | Maximum hours per week | Minimum Respiratory protective equipment (APF ⁹) | A, B or C | hours | APF | µg lead/100 ml blood | Date of test | pigment µg/m ³ | Cr µg/m ³ ¹⁰ | Date of Test |
| QC | WIC32 | <input type="checkbox"/> Transfer of mixed coloured granules and articles | | | | 12 | 10 | | | | | | | | |
| | | <input type="checkbox"/> Charging/discharging of coloured plastic premix or pre-compound (non-dedicated facility) or | Y | - | - | 6 | 10 | | | | | | | | |
| | | <input type="checkbox"/> Charging/discharging of coloured plastic premix or pre-compound (dedicated filling line) | - | Y (SEG) | Y | 6 | - | | | | | | | | |
| | | <input type="checkbox"/> Roll application and heat curing of coloured plastic paste | | | | 18 | - | | | | | | | | |
| | | Total | | | | 36 | | | | | | | | | |
| General worker # 2 | WIC33 | <input type="checkbox"/> Handling and manipulation of pigment plastic articles and plastic coated textiles | | | | 40 | - | | | | | | | | |
| Maintenance worker in industrial | WIC34 | <input type="checkbox"/> Handling and manipulation of pigment plastic articles, plastic coated textiles and coloured road marking | | | | 12 | 10 | | | | | | | | |

⁸ Only list non-confidential details. Personal data to be maintained by the customer/downstream user.

⁹ Level of respiratory protection that can realistically be expected to be achieved in the workplace by 95% of adequately trained and supervised wearers using a properly functioning and correctly fitted respiratory protective device.

¹⁰ The exposure related to chromium can be calculated based on a general 15% Cr-content of PY.34/PR.104

