

RAC working group/R/14/2023 Final 1 February 2023

# Report of the 14<sup>th</sup> Meeting of the Committee for Risk Assessment Working Group on Applications for Authorisation (RAC AFA working group)

(Telakkakatu 6, Helsinki) via Webex

# Tuesday 31 January starts at 10.00 Wednesday 1 February ends at 18.00

## Summary Record of the Proceedings

## 1. Welcome and apologies

The Chair, Piotr Sosnowski, welcomed the 30 participants to the 14<sup>th</sup> Meeting of the Committee for Risk Assessment Working Group on Applications for Authorisation. He informed the group that sections of the meeting would also be chaired by Johanna Peltola-Thies, the Deputy Chair of RAC, Tim Bowmer the Chair of RAC and Thierry Nicot.

The Chair summarised and thanked the members for a high contribution to the RAC written consultations on the draft opinions prior to the working group meeting. He reminded that the working group will be requested to adopt its report at the end of the meeting.

## 2. Adoption of the Agenda

The Chair introduced the agenda for the meeting (RAC working group/A/14/2023), which was adopted unchanged and is attached to this Report as Annex II.

## 3. Declarations of conflicts of interests to the Agenda

The Chair requested all participants to declare any potential conflicts of interest to any of the agenda items. One participant declared potential conflicts of interest to the agenda items. The Chairs all declared that they had no potential conflicts of interest related to any of the agenda points of the meeting.

#### 4. Authorisation applications

The recommendations by the working group on draft opinions on the 12 Applications covering 15 uses considered at this meeting are listed in Annex I.



## 5. AOB

#### AfA horizontal issues:

The Secretariat informed the working group about incoming applications for authorisation and reminded rapporteurs on ways to streamline the drafting of AfA opinions.

The Secretariat reminded the working group about the main objectives of the technical guidance for rapporteurs ("Lines-To-Take") and presented the updated standard text in section 8.2 and the standard text on feasibility study for LEV alarm/shutdown.

The working group briefly discussed on the questions to applicants. ECHA will investigate how the answers to common questions can already be provided in the AfA e.g. in the CSR. ECHA will also communicate to future applicants during a group Teleconference Information Session the latest AfA developments in terms of RAC's expectations. ECHA Secretariat clarified that if an applicant commits to implement a RMM this commitment is normally captured as a condition in section 7 unless the RMM is already clearly mentioned in the CSR.

## 6. Adoption of the report of the working group

The working group adopted its report, requesting the Secretariat to make any necessary editorial changes. The Chair Johanna Peltola-Thies thanked the participants and closed the meeting.

- Annex I Working group recommendations
- Annex II Agenda of the 14<sup>th</sup> meeting
- Annex III List of participants of the 14<sup>th</sup> Meeting of the Committee for Risk Assessment Working Group on Applications for Authorisation
- Annex IV Declarations of potential conflicts of interest
- Annex V Standard text for Section 8: monitoring arrangements for the authorisation and Section 9: recommendation for the review report.



## Annex I

# Working group recommendations

# Abbreviations used

4-NPnEO	4-Nonylphenol, branched and linear, ethoxylated
4-tert-OPnEO	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated
CA	chromic acid
СТ	chromium (VI) trioxide
DtC	dichromium tris(chromate)
ERC	environmental release category
ES	exposure scenario
HvE	Humans via environment
LEV	local exhaust ventilation
MOCA	2,2'-Dichloro-4,4'-methylenedianiline
OC	operational condition
PBT	persistent, bioaccumulative and toxic
PPE	personal protective equipment
RMM	risk management measure
RPE	respiratory protective equipment
RR	review report
SD	sodium dichromate
STP	sewage treatment plant
TCE	trichloroethylene
WWTP	wastewater treatment plant
vPvB	very persistent, very bioaccumulative

Summary of the recommendation	Action Points	
1. 273_CT_MikroMetal (1 use)		
<b>Use1:</b> Electroplating of different types of substrates using Chromium Trioxide to achieve functional surfaces with high durability and a bright or matt silvery appearance for sanitary applications.	Rapporteur together with SECR to edit the draft opinion	
<ul> <li>The working group discussed:</li> <li>need for feasibility study on segregation of tasks and/or covering of baths,</li> <li>conditions to improve the OCs/RMMs at the manual line.</li> </ul>	according to the discussion of the working group.	
The working group supported the draft opinion as proposed by the Rapporteur.	SECR to schedule the	



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The working group recommends to RAC that the operational	draft opinion
conditions and risk management measures described in the	for
application are not appropriate and effective in limiting the risk.	agreement at
	the RAC-64
The working group supported:	plenary
Section 7: additional conditions for the authorisation	meeting.
• The applicant shall implement, without delay, technical	
improvements to the OCs/RMMs at the manual line to minimise	
the exposure to Cr(VI) and eliminate the overreliance on RPE.	
To be completed within 12 months and to be followed by a	
measurement campaign to validate the effectiveness of the	
applied technical improvements.	
• The applicant shall install without delay a continuous flow	
control device connected at the LEV of all plating lines, as	
indicated in the response to RAC's questions. This control will	
activate an alarm system in case of a decrease and/or stopping	
of the suction flow.	
The applicant shall carry out and document a detailed feasibility     study on:	
a) the substitution of solid $CrO_3$ flakes with liquid $CrO_3$ to	
further limit exposure.	
b) the implementation of an automatic and closed system with	
liquid CrO <sub>3</sub> solution to perform concentration adjustment of	
the chromium baths.	
The feasibility study shall be concluded within 12 months of the	
granting of an authorisation for this use. In accordance with the	
granting of an automotion for this use. In accordance with the	
conclusion of the feasibility study, OCs and RMMs to further reduce	
conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and	
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2. 274 CT_SD_ArcelorMittal (2 uses)	
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**Use1:** Use of Chromium (VI) Trioxide and Sodium Dichromate for<br/>Passivation of Electrolytic Tinplate (ETP)the<br/>discussion of

The working group recommends to RAC the operational conditions group. and risk management measures described in the application are appropriate and effective in limiting the risk, provided that they are adhered to. SECR

The working group proposed:

Section 7: additional conditions for the authorisation

- 1. The applicant shall implement technical measures to stop addition of solid CT pellets at Basse-Indre and Etxebarri by the end of 2024.
- In the event that T8 (Dissolution of solid CT/SD) is undertaken at any site during the review period, the applicant shall implement appropriate OC/RMMs to reduce workplace exposure to Cr(VI) in addition to those proposed in the CSR. As a minimum, the following RMMs shall be implemented:
  - Install a local exhaust ventilation system or an air extraction system to reduce dust generation during dissolution of solid CT/SD.
  - Restrict access to the area where the dissolution will take place.
  - Ensure operators that carry out the activity are trained in how to minimise exposure.
  - Monitor exposure of the operators by air monitoring and biomonitoring.

The potential for exposure shall be brought to as low a level as technically and practically feasible prior to commencement of the activity.

- 3. The applicant shall carry out and document a detailed feasibility study at all sites on:
  - the implementation of a closed/automated system to perform bath sampling tasks, where exposure to Cr(VI) is foreseen and which currently rely on the use of PPE.
  - vacuum removal of sludge at all sites and the use of LEV in the interim.

The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use. In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented and reviewed during the review period.

Section 8: monitoring arrangements for the authorisation as given in Annex V.

Section 9: recommendations for the review report as given in Annex V.

**Use2:** Use of Chromium (VI) Trioxide for Electrolytic Chromium Coating of Steel (ECCS); also known as Tin Free Steel (TFS)

SECR to schedule the draft opinion for agreement at the RAC-64 plenary meeting.

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The working group recommends to RAC the operational conditions and risk management measures described in the application are appropriate and effective in limiting the risk, provided that they are adhered to.

The working group proposed:

Section 7: additional conditions for the authorisation

- 1. In the event that T8 (Dissolution of solid CT) is undertaken in Basse-Indre, during the review period, the applicant shall implement appropriate OC/RMMs to reduce workplace exposure to Cr(VI) in addition to those proposed in the CSR. As a minimum, the following RMMs shall be implemented:
  - Install a local exhaust ventilation system or an air extraction system to reduce dust generation.
  - Restrict access to the area where the dissolution will take place.
  - Ensure operators that carry out the activity are trained in how to minimise exposure.
  - Monitor exposure of the operators by air monitoring and biomonitoring.

The potential for exposure shall be brought to as low a level as technically and practically feasible prior to commencement of the activity.

- 2. The applicant shall carry out and document a detailed feasibility study on:
  - a. the implementation of a closed/automated system to perform bath sampling tasks, where exposure to Cr(VI) is foreseen and which currently rely on the use of PPE, in both sites.
  - b. the substitution of solid CrO<sub>3</sub> flakes by liquid solutions of CrO<sub>3</sub>, or if not feasible, pellets, to further limit exposure in Etxebarri.

The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use. In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented and reviewed during the review period.

Section 8: monitoring arrangements for the authorisation as given in Annex V.

Section 9: recommendations for the review report as given in Annex V.

The working group recommended to discuss at the RAC plenary following points of the draft opinion:

- similarities and differences of the Basse-Indre site versus the KYB site in the RMMs to control release to air and measured releases and consider whether for this site for MvE overall conclusion is correct and whether a condition is needed.



# 3. 275\_CT\_Sicrom (1 use)

**Use1:** Functional chrome plating of hydraulic cylinders and swivel joints using chromium trioxide together with

The working group supported the draft opinion as proposed by the Rapporteur.

The working group recommends to RAC that the operational the conditions and risk management measures described in the review discussion of report are appropriate and effective in limiting the risk, provided the working that they are implemented and adhered to. group.

The working group proposed:

Section 7: additional conditions for the authorisation

- 1. The applicant shall ensure that workers perform a 'fit check' of the seal of their respiratory protective equipment (RPE) before taking on relevant tasks and workers shall be trained to do this test adequately.
- 2. The applicant shall carry out and document a detailed feasibility study on:
  - a) the substitution of solid CrO<sub>3</sub> flakes with liquid CrO<sub>3</sub> to further limit the exposure;
  - b) the implementation of a closed automatic system with liquid CrO<sub>3</sub> solution to perform concentration adjustment of the chromium baths and the implementation of an automated or closed system to perform bath sampling tasks, where exposure to Cr(VI) is foreseen and which currently rely on the use of PPE.

The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use. In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented and reviewed during the review period.

Section 8: monitoring arrangements for the authorisation

- 1. The applicant shall implement the following monitoring programmes:
- (a) Occupational inhalation exposure monitoring programmes for Cr(VI) at both sites, which shall:
- be conducted at least annually for the workers exposed to Cr(VI). Should circumstances change, the frequency of the measurements should be increased to capture any potential increase in exposure;
- (ii) be based on relevant standard methodologies or protocols;
- (iii) ensure a sufficiently low limit of quantification
- (iv) comprise personal and/or static inhalation exposure

SECR to edit

the draft

opinion according to

SECR to

for

schedule the

draft opinion

agreement at

the RAC-64

meeting via

the A-listing

procedure.

plenary



#### sampling;

- (v) be representative of:
  - a. the range of tasks undertaken where exposure to Cr(IV) is possible;
  - b. the operational conditions and risk management measures typical for each of these tasks;
  - c. the number of workers potentially exposed;
  - (vi) include contextual information about the tasks performed during sampling;
- (b) Environmental releases:
  - (i) the applicants shall continue conducting their yearly monitoring programme for Cr(VI) emission to air at the Visano site and implement the same monitoring programme at the Acquafredda site;
  - (ii) the applicants shall conduct emission measurements more frequently in the periods following any possible changes in the process;
  - (iii) the monitoring programmes for air emissions shall:
    - a. be based on relevant standard methodologies or protocols; and
    - b. be representative of the OCs and RMMs used at the applicant's site.
    - c. ensure a sufficiently low limit of quantification
- 2. The information gathered via the measurements referred to in paragraph 1 and related contextual information shall be used by the applicants to confirm the effectiveness of the operational conditions and risk management measures in place and, if needed, to introduce measures to further reduce workplace exposure to Cr(VI) and emissions to the environment to as low a level as technically and practically feasible. While doing so, the applicants shall also review and, if needed, update their assessment of the combined exposure for the different groups of workers.
- 3. The applicants shall ensure that the application of RMMs at their site is in accordance with the hierarchy of control principles.
- 4. The information from the studies and monitoring programmes referred to in paragraph 1, including the contextual information associated with each set of measurements as well as the outcome and conclusions of the review and any action taken in accordance with paragraph 2, shall be documented, maintained, and be made available by the applicants, upon request, to the competent national authority of the Member State where the authorised use will take place.
- 5. The applicant may reduce the frequency of measurements, once they can demonstrate to the competent authority of the Member State where the use takes place, that exposure of humans has been reduced to as low a level as technically and practically possible and that the risk management measures and operational conditions corresponding to the specific



exposure scenarios developed in the chemical safety report function appropriately

- 6. Where the frequency of a monitoring programme has been reduced in accordance with paragraph 5, any subsequent changes to the operational conditions or risk management measures that may affect the exposure of workers at each of the sites where the use takes place shall be documented. The applicant shall assess the impact of such changes by monitoring to demonstrate that exposure of workers continues to be reduced to as low a level as technically and practically possible.
- 7. The applicant shall continue their existing annual biomonitoring programme for the workers potentially exposed to Cr(VI) at the Visano site and implement the same monitoring programme at the Acquafredda site.

Section 9: recommendations for the review report as given in Annex V.

The working group recommended that the draft opinion is suitable for consideration via the A-listing procedure.

# 4. 276\_CT\_Osmaplast (2 uses )

<b>Use1:</b> Industrial use of hexavalent chromium for a pre-treatment step (etching) in the electroplating process for various applications.	Rapporteur together with SECR to edit
<b>Use1:</b> Industrial use of hexavalent chromium to create a long- lasting and high durability chromium decorative surface on plastic substrates in the electroplating process for various applications.	the draft opinion according to
The working group discussed:	discussion of the working
<ul> <li>correctness and outcome of air monitoring and biomonitoring.</li> </ul>	group.
The working group supported the draft opinion as proposed by the Rapporteur.	SECR to schedule the draft opinion for
The working group recommends to RAC that the operational conditions and risk management measures described in the draft opinion are appropriate and effective in limiting the risk, provided that they are implemented and adhered to.	agreement at the RAC-64 plenary meeting via
<ul> <li>The working group supported:</li> <li>Section 7: additional conditions for the authorisation</li> <li>1. The applicant shall ensure that workers perform a 'fit check' of the seal of their respiratory protective equipment (RPE) before</li> </ul>	the A-listing procedure.



EUROPEAN CHEMICALS AGENCY	
taking on relevant tasks and workers shall be trained to do	
this test adequately.	
2. The applicant shall carry out and document a detailed	
reasibility study on:	
a) the substitution of solid CrO3 flakes with liquid CrO3 to	
b) the implementation of a closed automatic system with	
liquid $CrO_2$ solution to perform concentration adjustment of	
the chromium baths:	
c) the implementation of an automated or closed system to	
perform bath sampling tasks, where exposure to Cr(VI) is	
foreseen and which currently rely on the use of PPE.	
d) the installation of a system that controls continuously the	
local exhaust ventilation and triggers and appropriate and	
effective measures to reduce the exposures to workers	
(e.g. the shutdown of the relevant Cr(VI) plating bath(s),	
in case the local exhaust ventilation is not functioning	
properly.	
The feasibility study shall be concluded within 12 months of	
the granting of an authorisation for this use. In accordance	
with the conclusion of the feasibility study, OCs and RMMs to	
further reduce workplace exposure to Cr(VI) to as low a level	
as technically and practically feasible must be implemented	
and reviewed during the review period.	
in Appen V	
Section 9: recommendations for the review report as given in	
Annex V.	
The working group recommended that the draft opinion is suitable	
for consideration via the A-listing procedure.	
5. 277 CT Ritmonio (1 use)	
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<b>Use1:</b> Chromium trioxide-based functional chrome plating of	Rapporteur
machine components for centrifugal separator and decanter	together with
centrifuges.	SECR to ealt
The working group discussed:	
- need for feasibility study on segregation	according to
need for reasibility study on segregation.	the
The working group recommends to RAC that the operational	discussion of
conditions and risk management measures described in the	the working
application are appropriate and effective in limiting the risk,	group.
provided that they are adhered to.	
	SECR to
The working group supported:	schedule the



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Section 7: additional conditions for the authorisation	draft opinion	
The applicant shall carry out and document a detailed feasibility	for	
study on:	agreement at	
a) the substitution of solid CrO <sub>3</sub> flakes with liquid CrO <sub>3</sub> to further	the RAC-64	
limit exposure.	plenary	
b) the implementation of a closed/automatic system with liquid	meeting.	
CrO <sub>3</sub> solution to perform concentration adjustment of the		
chromium baths.		
c) the implementation of an automated or closed system to		
perform bath sampling tasks, where exposure to Cr(VI) is		
foreseen		
d) the installation of a system that controls continuously the		
local exhaust ventilation and triggers automatically an alarm		
and appropriate and effective measures to reduce the		
and appropriate and enective measures to reduce the		
Cr(VI) plating bath(c) in case the legal exhaust ventilation is		
ci (vi) plaulig baul(s), ili case the local exhaust ventilation is		
not functioning property		
e) the physical separation between the loading/unloading		
working area and the plating line.		
The reasibility study shall be concluded within 12 months of the		
granting of an authorisation for this use. In accordance with the		
conclusion of the feasibility study, OCs and RMMs to further		
reduce workplace exposure to Cr(VI) to as low a level as		
technically and practically feasible must be implemented and		
reviewed during the review period.		
Section 8: monitoring arrangements for the authorisation as given		
in Annex V.		
Section 9: recommendations for the review report as given in		
Annex V.		
The working group recommended to discuss at the RAC plenary		
following points of the draft opinion:		
- Section 7: Additional conditions for the authorisation.		
6. 278_RR1_Diglyme_Isochem (1 use)		
<b>Use1:</b> Use of diglyme as a process solvent in one step of the	SECR to	
manufacturing of an Active Pharmaceutical Ingredient used in an	schedule the	
anti-protozoal drug	draft opinion	
	for	
The working group supported the draft opinion as proposed by the	agreement at	
Rapporteur.	the RAC-64	
	nlenany	
The working group recommends to PAC that the rick accomment	meeting via	
The working group recommenus to RAC that the fisk assessment	meeting via	



report are implemented and adhered to.

The working group proposed:

Section 7: additional conditions for the authorisation none

Section 8: monitoring arrangements for the authorisation

- 1. The authorisation holder shall continue the following occupational inhalation exposure monitoring programmes for Diglyme, which shall:
  - (i) be conducted at least annually. The frequency of the measurements should be sufficient to capture any potential increase in exposure of workers to Diglyme
  - (ii) be based on relevant standard methodologies or protocols
  - (iii) ensure a sufficiently low limit of quantification
  - (iv) comprise personal and/or static inhalation exposure sampling
  - (v) be representative of:
    - a. the full range and duration of tasks undertaken where exposure to Diglyme is possible
    - b. the OCs and RMMs typical for each of these tasks
    - c. the number of workers potentially exposed
  - (vi) include contextual information about the tasks performed during sampling.
- 2. The information gathered via the measurements referred to in paragraph 1 and related contextual information shall be used annually by the authorisation holder to confirm the effectiveness of the RMMs and OCs in place and, if needed, to introduce measures to further reduce workplace exposure to Diglyme and emissions to the environment to as low a level as technically and practically feasible. While doing so, the authorisation holder shall also review and, if needed, update their assessment of the combined exposure for the different groups of workers.
- 3. The authorisation holder shall use the monitoring results to further ensure that the application of RMMs at their site is in accordance with the hierarchy of control principles.
- 4. The information from the monitoring programmes referred to in paragraph 1, including the contextual information associated with each set of measurements as well as the outcome and conclusions of the review and any action taken in accordance with paragraph 2, shall be documented, maintained and be made available by the authorisation holder, upon request, to the competent national authority of the Member State where the authorised use will take place.
- 5. The authorisation holder may reduce the frequency of measurements, once they can demonstrate to the competent authority of the Member State where the use takes place, that exposure of humans has been reduced to as low a level as technically and practically possible and that the risk management measures and operational conditions



corresponding to the specific exposure scenarios developed in the chemical safety report function appropriately. 6. Where the frequency of a monitoring programme has been reduced in accordance with paragraph 5, any subsequent changes to the operational conditions or risk management measures that may affect the exposure of workers at each of the sites where the use takes place shall be documented. The authorisation holders shall assess the impact of such changes by monitoring to demonstrate that exposure of workers continues to be reduced to as low a level as technically and practically possible. Section 9: recommendations for the review report The results of the measurements referred to in section 8.1 paragraph 1 as well as the outcome and conclusions of the review and any actions taken in accordance with section 8.1 paragraph 2, should be documented and included in any subsequent authorisation review report. The working group recommended that the draft opinion is suitable for consideration via the A-listing procedure. 7. 279\_CT\_GalvanoPlus (1 use) **Use1:** Industrial use of chromium trioxide for functional chrome Rapporteur plating with decorative character of sanitary equipment. together with SECR to edit The working group discussed: the draft authorisation conditions for applicant to perform a feasibility opinion study on segregation. according to the The working group supported the draft opinion as proposed by the discussion of Rapporteur with agreed changes. the working group. The working group recommends to RAC the operational conditions and risk management measures described in the application are SECR to appropriate and effective in limiting the risk, provided that they schedule the are adhered to. draft opinion for The working group proposed: agreement at Section 7: additional conditions for the authorisation the RAC-64 The applicant shall ensure that workers perform a 'fit check' of plenary the seal, of their respiratory protective equipment (RPE) before meeting via taking on relevant tasks and workers shall be trained to do this the A-listing test adequately procedure. The applicant shall install without delay, as indicated in the response to RAC's questions: an automated system at Briga Novarese site for the



EUROPEAN CHEMICALS AGENCY	
<ul> <li>transfer of jigs over the activation step to ensure that also this step, is automated. This is currently performed manually by workers who rely mostly on RPE as a protective measure against exposure. An automatic system for the transfer of the jigs from the activation bath to the chrome plating bath is already installed in San Maurizio's site;</li> <li>a closed/automated supply system to transfer the CrO<sub>3</sub> solution directly in to the baths in both sites (San Maurizio and Briga Novarese). This operation is currently performed manually by workers which rely mostly on the use of RPE as safety measure.</li> </ul>	
The applicant shall carry out and document a detailed feasibility	
<ul> <li>study on:</li> <li>a) the implementation of an automated or closed system to perform bath sampling tasks, where exposure to Cr(VI) is foreseen and which currently rely on the use of RPE;</li> <li>b) the installation of a system that controls continuously the local exhaust ventilation and triggers automatically an alarm and/or the shutdown of the plating operation in case the local exhaust ventilation is not functioning properly;</li> <li>c) the physical separation between the loading/unloading working area and the plating line.</li> <li>The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use. In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented and reviewed during the review period.</li> <li>Section 8: monitoring arrangements for the authorisation as given in Annex V.</li> </ul>	
The working group recommended that the draft opinion is suitable for consideration via the A-listing procedure.	
8. 280_CT_Tecnocrom_Industrial (2 uses)	
<b>Use1:</b> Functional chrome plating of parts with at least one axis of symmetry and simple surface geometry. <b>Use2:</b> Functional chrome plating of parts with complex surface geometry and requiring the use of an auxiliary anode	Rapporteurs together with SECR to edit the draft opinion
ne working group discussed:	according to
- monitoring arrangements in section 8.	discussion of
	i i i i i i i i i i i i i i i i i i i



The working group supported the draft opinion as proposed by the group. Rapporteurs.

The working group recommends to RAC the operational conditions and risk management measures described in the application are not appropriate and effective in limiting the risk, provided that they are implemented and adhered to.

#### The working group proposed:

Section 7: additional conditions for the authorisation

- The applicant shall implement additional OCs and RMMs at all sites, to ensure segregation of the chrome plating areas (e.g. reconfiguration/redesign to remove loading and unloading from the plating area, removal of the workers from the plating area through remote operations of hoists, baths coverage when in use), to comply with the hierarchy of control principles.
- The additional OCs and RMMs shall be implemented within 12 months of the granting of an authorisation for this use.
- 2. Until the implementation of the additional OCs and RMMs, the applicant shall ensure that workers involved in chrome plating activities (WCS 2) use appropriate and properly fittested RPE, with due consideration for the duration of the tasks and the comfort of the workers during their use.
- 3. Without prejudice to points 1 and 2 above, the applicant shall carry out and document a detailed feasibility study on:
  - (a) the substitution of solid  $CrO_3$  by liquid solutions of  $CrO_3$  (at 11 sites) to further limit exposure,
  - (b) the implementation of an automated system to perform the bath concentration adjustment (at 11 sites),
  - (c) the implementation of a closed/automated system to perform bath sampling tasks (at all sites), where exposure to Cr(VI) is foreseen and which currently rely on the use of PPE.

The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use.

In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented all across the sites and reviewed during the review period.

Section 8: monitoring arrangements for the authorisation as given in Annex  $\mathsf{V}$ 

Section 9: recommendations for the review report as given in Annex V.

The working group recommended to discuss at the RAC plenary following points of the draft opinion:

- Section 7: Additional conditions for the authorisation.

SECR to schedule the draft opinion for agreement at the RAC-64 plenary meeting.

the working



Section 8: Proposed monitoring arrangements for the authorisation. 9. 281\_CT\_Electro\_Durocrom (1 use) **Use1:** Industrial use of chromium trioxide for the hard chromium **Rapporteurs** plating of moulds, dies and custom-made finished parts on any together with metal base, in order to provide hardness, wear resistance, **SECR** to edit corrosion resistance, demoulding properties, low friction ratio, for the draft the manufacture of high-quality metal parts in several sectors as opinion automotive, pharmaceutical, food and packaging industries. according to the The working group discussed: discussion of different options of additional conditions the the working for authorisation, group. needs for biomonitoring requirements. SECR to schedule the The working group recommends to RAC that the operational conditions and risk management measures described in the draft opinion application are not appropriate and effective in limiting the risk to for workers. agreement at the RAC-64 The working group recommends to RAC that the OCs and RMMs plenary related to environmental release minimisation are appropriate and meeting. effective in limiting the risk to the general population via the environment. The working group proposed: Section 7: additional conditions for the authorisation 1. The applicant shall implement additional OCs and RMMs, such as segregation (e.g. reconfiguration/redesign) of the chrome plating area from other work areas to avoid that loading and unloading activities are performed in the vicinity of the plating baths and remote operations of hoists to reduce presence of workers in proximity of plating baths. The implementation of these additional measures complies with the hierarchy of control principles. The additional OCs and RMMs shall be implemented within 12 months of the granting of an authorisation for this use. 2. Until the implementation of the additional OCs and RMMs, the applicant shall ensure that workers involved in chrome plating activities (WCS 2) use appropriate and properly fittested RPE, with due consideration for the duration of the tasks and the comfort of the workers during their use. 3. Without prejudice to points 1 and 2 above, the applicant shall carry out and document a detailed feasibility study on: (a) the implementation of a closed/automated system to



perform bath sampling tasks, where exposure to Cr(VI) is foreseen and which currently rely on the use of PPE. The feasibility study shall be concluded within 12 months of the granting of an authorisation for this use. In accordance with the conclusion of the feasibility study, OCs and RMMs to further reduce workplace exposure to Cr(VI) to as low a level as technically and practically feasible must be implemented all across the sites and reviewed during the review period.

Section 8: monitoring arrangements for the authorisation

- 1. The applicant shall implement the following monitoring programmes for Cr(VI):
- a) Occupational inhalation exposure monitoring programme, which shall:
  - i. be conducted within 6 months of the granting of an authorisation on this use, and at least annually afterwards, for the workers exposed to Cr(VI). The frequency of the measurements should be sufficient to capture any potential increase in exposure of workers to Cr(VI).
  - ii. be based on relevant standard methodologies or protocols.
  - iii. ensure a sufficiently low limit of quantification with which to assess minimisation of emissions.
  - iv. comprise personal and static inhalation exposure sampling.
  - v. be representative of:
    - a. the full range and duration of tasks undertaken where exposure to Cr(VI) is possible.
    - b. the OCs and RMMs typical for each of these tasks.
    - c. the number of workers potentially exposed.
  - vi. include contextual information about the tasks performed during sampling.
- b) Environmental releases:
  - i. the applicant shall conduct air emission measurements at least annually or more frequently in the periods following any possible changes in the process.
  - ii. the monitoring programmes for wastewater and air emissions shall:
    - a. be based on relevant standard methodologies or protocols.
    - b. be representative of the OCs and RMMs used at the applicant's site.
    - c. ensure a sufficiently low level of quantification.
- 2. The information gathered via the measurements referred to in paragraph 1 and related contextual information shall be used by the applicant to confirm the effectiveness of the OCs and RMMs in place and, if needed, to introduce measures to further reduce workplace exposure to Cr(VI) and emissions to the environment to as low a level as technically and practically feasible. While doing so, the applicant shall also review and, if needed, update their assessment of the combined exposure for the different groups of workers.



- 3. The applicant shall use the monitoring results to further ensure that the application of RMMs at their site is in accordance with the hierarchy of control principles.
- 4. The information from the monitoring programmes referred to in paragraph 1, including the contextual information associated with each set of measurements as well as the outcome and conclusions of the review and any action taken in accordance with paragraph 2, shall be documented, maintained, and be made available by the applicant, upon request, to the competent national authority of the Member State where the authorised use will take place.
- 5. The applicant may reduce the frequency of measurements, once they can demonstrate to the competent authority of the Member State where the use takes place, that exposure of humans (i.e. workers and general population) has been reduced to as low a level as technically and practically possible and that the OCs and RMMs corresponding to the specific exposure scenarios developed in the chemical safety report function appropriately.
- 6. Where the frequency of a monitoring programme has been reduced in accordance with paragraph 5 any subsequent changes to the OCs or RMMs that may affect the exposure of workers and humans via environment at the site where the use takes place shall be documented. The applicant shall assess the impact of such changes by monitoring to demonstrate that exposure of workers and humans via environment continues to be reduced to as low a level as technically and practically possible.
- 7. The applicant shall adapt and continue their existing annual biomonitoring programme for the workers potentially exposed to Cr(VI). This programme must consist, as a minimum, of pre and post shift urine samples (beginning of the week --> end of the week), valid existing standard methodologies are e.g. HSE, HBM4EU, etc. This annual biomonitoring program must be synchronised with the annual occupational air monitoring campaign specified in 1.a above.
- Section 9: recommendations for the review report

The results of the actions/ feasibility study as mentioned in section 7 and the measurements referred to in section 8.1, the conclusions from the investigation on the source of measured concentration of Cr(VI) in wastewater referred in section 2.5, as well as the outcome and conclusions of the review and any actions taken in accordance with section 8.1, should be documented and included in any subsequent authorisation review report.

The applicant should consider splitting WCS 2 - functional plating - into further contributing scenarios to cover specific tasks such as loading/unloading, manual plating and semi-automated plating, separately.



ROPEAN CHEMICALS AGENCY The applicant shall report the results of their monitoring programme for Cr(VI) emission to wastewater. The working group recommended that the draft opinion is suitable for general agreement at the RAC plenary. 10. 282\_CT\_Hazet\_Werk (1 use) **Use1:** Chromium trioxide-based functional chrome plating of hand Rapporteur tools to achieve a high level of abrasion resistance as well as together with corrosion and chemical resistance. SECR to edit the draft The working group discussed: opinion segregation of tasks and information related to the exposure according to dataset, the additional conditions for the authorisation to workers taking discussion of manual tasks to wear proper RPE. the working group. The working group supported the draft opinion as proposed by the Rapporteur. SECR to schedule the The working group recommends to RAC that the operational draft opinion conditions and risk management measures described in the for application are appropriate and effective in limiting the risk, agreement at provided that they are adhered to. the RAC-64 plenary The working group proposed: meeting via Section 7: additional conditions for the authorisation the A-listing 1. The applicant shall ensure that workers perform a 'fit check' of procedure. the seal of their respiratory protective equipment (RPE) before taking on relevant tasks, and workers shall be trained to do this test adequately. 2. The applicant shall ensure that appropriate RPE is worn during baths sampling (WCS 4) due to the increased potential for exposure to CrO<sub>3</sub>. The use of RPE could stop if the task starts being performed with an automated system or closed sampling system. 3. The applicant shall carry out and document a detailed feasibility study on: a) the segregation between the loading/unloading areas and the plating area, either by the introduction of a physical barrier or by the removal of loading/unloading from the plating area; b) the implementation of a closed/ automated system for sampling to perform bath sampling tasks, where exposure to Cr(VI) is foreseen. The feasibility study shall be concluded within 12 months of the



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granting of an authorisation for this use. In accordance with the	
conclusion of the feasibility study. OCs and PMMs to further	
conclusion of the reasibility study, des and kinns to further	
reduce workplace exposure to Cr(VI) to as low a level as	
technically and practically feasible must be implemented and	
reclimently and producedly reasible mast be implemented and	
reviewed during the review period.	
Section 8: monitoring arrangements for the authorisation as given	
in Appex V	
Section 9: recommendations for the review report as given in	
Annex V.	
The working group recommended that the draft opinion is suitable	
for consideration via the A-listing procedure.	
11. 283_CT_KYB (1 use)	
	_
<b>Use1:</b> Functional chrome plating of piston rods for shock	Rapporteurs
absorbers for automotive applications.	together with
	SECD to adit
	SECK to eait
The working group discussed:	the draft
- impact of use different RPEs for the exposure values	opinion
negented by the applicant for the beth sites	opinion operating to
presented by the applicant for the both sites,	according to
- additional conditions for the authorisation related to the	the
Rapporteurs concern on the HyE exposure level at the KYBSE	discussion of
Ororbia site.	the working
	aroup.
The working group recommends to BAC that the operational	5 1
The working group recommends to RAC that the operational	
conditions and risk management measures described in the	SECR to
application are appropriate and effective in limiting the risk to the	schedule the
upplication are appropriate and effective in limiting the not to the	
workers but not appropriate and effective in limiting the risk to the	draft opinion
general population at the Ororbia site.	for
5 11	agroomont at
	agreement at
The working group proposed:	the RAC-64
Section 7: additional conditions for the authorisation	plenary
The applicant shall continue to cover out and document a detailed	monting with
The applicant shall continue to carry out and document a detailed	meeting with
feasibility study on the implementation of a closed/automated	short
system to perform bath sampling tasks (at KYBSE Ororbia site)	nresentation
	presentation
where exposure to Cr(VI) is foreseen and which currently rely on	on selected
the use of PPE.	points of the
The feasibility study shall be concluded within 10 months of the	due ft
The reasibility study shall be concluded within 12 months of the	urait
granting of an authorisation for this use.	mopinion.
In accordance with the conclusion of the feasibility study. OCs and	
DMMe to further reduce succession of the redshifty study, ous did	
KIMIN'S to further reduce workplace exposure to Cr(VI) to as low a	
level as technically and practically feasible must be implemented	
and reviewed during the review period	
The applicant shall take further action related to the strength interview.	
The applicant shall take further action related to the air emissions	
of the KYSBE site:	
• At the latest within three months of the granting of an	
	1



authorisation for this use, the applicant shall conduct a measurement campaign on all emission points for emissions of Cr(VI) to air at the KYBSE site. This campaign shall be conducted in accordance to section 8.1, paragraph 1.b)iii.

- The applicant shall carefully analyse the results of the measurement campaign and recalculate the release factor for the air of the KYBSE site.
  - A release factor of a same level of magnitude or lower than the one derived for the KMCZ site shall be achieved;
  - If the release factor is not of the same order of magnitude or lower than for KMCZ, the applicant shall conduct a root cause analysis for the difference and implement immediately appropriate actions to improve the situation in terms of achieving a higher level of efficiency of the applied OCs and RMMs at the site for air release control. If necessary, additional RMMs shall be implemented to further reduce these releases to as low a level as technically and practically feasible.
  - Control measurements shall be conducted to confirm the impact of any action. The "control measurement – analysis – action" cycle shall be continued until a release factor of the same level of magnitude or lower than KMCZ is achieved.

All of the actions taken shall be reviewed during the review period. Section 8: monitoring arrangements for the authorisation as given in Annex V.

Section 9: recommendations for the review report as given in Annex V.

The working group recommended to discuss at the RAC plenary following points of the draft opinion:

- exposure calculations,
- concerns related to the Rapporteurs concern on the HvE exposure level at the KYBSE Ororbia site,
- Section 7: Additional conditions for the authorisation.

# 12. 284\_CT\_CGS (1 use)

**Use1:** Electroplating of different types of substrates using<br/>Chromium Trioxide to achieve functional surfaces with high<br/>durability and a bright or matt silvery appearance for sanitary<br/>applications.**SECR** to<br/>verify the<br/>coverage of<br/>the EUSES<br/>output for<br/>the MvE<br/>routes for the



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	oral
The working group recommends to RAC that the operational conditions and risk management measures described in the	exposure.
application are appropriate and effective in limiting the risk,	Rapporteur
provided that they are adhered to.	together with
	SECR to edit
The working group proposed:	the draft
Section 7: additional conditions for the authorisation	opinion
The applicant shall carry out and document a detailed feasibility	according to
study on:	the
a) the substitution of solid $CrO_3$ flakes with liquid $CrO_3$ to	discussion of
further limit exposure;	the working
b) the implementation of an automatic system with liquid $CrO_3$	group.
solution to perform concentration adjustment of the	
chromium bath and the implementation of an automated or	SECR to
closed system to perform bath sampling tasks, where	schedule the
exposure to Cr(VI) is foreseen and which currently rely on	draft opinion
the use of PPE;	for
c) the installation of a system that controls continuously the	agreement at
local exhaust ventilation and triggers automatically an	the RAC-64
alarm and appropriate and effective measures to reduce the	plenary
exposures to workers (e.g. the shutdown of the relevant	meeting via
Cr(VI) plating bath(s), in case the local exhaust ventilation	the A-listing
is not functioning properly;	procedure.
d) the physical separation between the loading/unloading	
working area and the plating line.	
The feasibility study shall be concluded within 12 months of the	
granting of an authorisation for this use. In accordance with the	
conclusion of the reasibility study, UCs and RMMs to further reduce workplace expective to $Cr(VI)$ to be level as	
technically and practically feasible must be implemented and	
reviewed during the review period	
Section & monitoring arrangements for the authorization as given	
in Approx V, only points 1.6	
Soction 9: recommondations for the review report as given in	
Annex V.	
The working group recommended that the draft opinion is suitable	
for consideration via the A-listing procedure.	



Annex II

1 December 2022 RAC WG/A/14/2023 Draft

# Agenda

# Meeting of the Committee for Risk Assessment Applications for Authorisation Working Group (RAC AFA WG) reporting to RAC-64

31 January - 1 February 2023

WebEx meeting

# Tuesday 31 January starts at 10.00 Wednesday 1 February ends at 18.10

# Times are Helsinki times

Item 1 – Welcome and Apologies

Item 2 – Adoption of the Agenda

## RAC WG/A/14/2022 For adoption

Item 3 – Declarations of conflicts of interest to the Agenda

Item 4 – Authorisation applications

- 1. 273\_CT\_MikroMetal
- 2. 274\_CT\_SD\_ArcelorMittal
- 3. 275\_CT\_Sicrom
- 4. 276\_CT\_Osmaplast
- 5. 277\_CT\_Ritmonio
- 6. 278\_RR1\_Diglyme\_Isochem
- 7. 279\_CT\_GalvanoPlus
- 8. 280\_CT\_Tecnocrom\_Industrial
- 9. 281\_CT\_Electro\_Durocrom
- 10.282\_CT\_Hazet\_Werk
- 11.283\_CT\_KYB
- 12.284\_CT\_CGS



## For discussion

#### Item 5 – AOB

1. AfA horizontal issues

For discussion

Item 6 – Adoption of the Report from the WG

For discussion and adoption



## Annex III

#### List of participants of the 14<sup>th</sup> Meeting of the RAC AFA working group

**RAC Members** Angeli Karine Barański Boguslaw Brovkina Julija Chiurtu Elena (co-opted) Deviller Geneviève (co-opted) Doak Malcolm Docea Anca Esposito Dania Geoffroy Laure Ginnity Bridget (co-opted) Kadiķis Normunds Leinonen Riitta Menard Anja Moldov Raili Peczkowska Beata Rakkestad Kirsten Eline Schlüter Urs Tekpli Nina Landvik Tobiassen Lea Stine Užomeckas Žilvinas Van der Haar Rudolf (co-opted) Viegas Susana Members' advisers Beetstra Renske (adviser to Gerlienke Schuur) Catone Tiziana (adviser to Gabriele Aquilina)

Granato Giuseppe (adviser to Dania Esposito)

Jankowska Agnieszka (adviser to Beata Peczkowska)

Seba Julie (adviser to Wendy Rodriguez)

#### European Commission

Fabbri Marco

Roebben Gert

## **RAC Regular Stakeholders**

Janosi Amaya

<u>ECHA</u>
Ahtiainen Heini
Bowmer Tim
Di Bastiano Augusto
Gmeinder Michael
Klausbruckner Carmen
Logtmeijer Christiaan
Loukou Christina
Ludborzs Arnis
Mäkelä Petteri
Nicot Thierry
Peltola Jukka
Peltola-Thies Johanna
Pillet Monique
Regil Pablo
Schakir Yasmin
Sosnowski Piotr
Thierry-Mieg Morgane
Vazquez-Rodriguez Jesus

Väänänen Virpi



## Annex IV

#### Declaration of potential conflicts of interest

The following participants, including those for whom the Chair declared the interest on their behalf, declared potential conflicts of interest with the Agenda items (according to Art 9 (2) of RAC RoPs)

AP/Dossier / DS	RAC Member	Reason for potential CoI / Working for
ALREADY DECLARED AT PREVIOUS RAC AFA WORKING GROUP MEETING(S)		
Applications for Authorisation		
All chromates	Urs SCHLUTER	Institutional & personal involvement; asked to refrain from voting in the event of a vote on this group of substances - other mitigation measures may be applied by the Chair.



# Standard text for Section 8: monitoring arrangements for the authorisation and Section 9: recommendation for the review report.

#### Section 8: monitoring arrangements for the authorisation

- 1. The applicant shall implement the following monitoring programmes for Cr(VI):
- (a) Occupational inhalation exposure monitoring programmes, which shall:
  - be conducted at least annually. The frequency of the measurements should be sufficient to capture any potential increase in exposure of workers to Cr(VI).
  - (ii) be based on relevant standard methodologies or protocols;
  - (iii) ensure a sufficiently low limit of quantification;
  - (iv) comprise personal and/or static inhalation exposure sampling;
  - (v) be representative of:
    - a. the full range and duration of tasks undertaken where exposure to Cr(VI) is possible;
    - b. the OCs and RMMs typical for each of these tasks;
    - c. the number of workers potentially exposed.
  - (vi) include contextual information about the tasks performed during sampling.
- (b) Environmental releases:
  - (i) the applicant shall continue conducting their (or "implement a") monitoring programme for Cr(VI) emission to wastewater;
  - (ii) the applicant shall conduct air emission measurements at least annually or more frequently following any possible changes in the process;
  - (iii) the monitoring programmes for wastewater and air emissions shall:
    - a. be based on relevant standard methodologies or protocols; and
    - b. be representative of the OCs and RMMs used at the applicant's site.
    - c. ensure a sufficiently low limit of quantification.
- 2. The information gathered via the measurements referred to in paragraph 1 and related contextual information shall be used annually by the applicant to confirm the effectiveness of the RMMs and OCs in place and, if needed, to introduce measures to further reduce workplace exposure to Cr(VI) and emissions to the environment to as low a level as technically and practically feasible. While doing so, the applicant shall also review and, if needed, update their assessment of the combined exposure for the different groups of workers.
- 3. The applicant shall use the monitoring results to further ensure that the application of RMMs at their site is in accordance with the hierarchy of control principles.
- 4. The information from the monitoring programmes referred to in paragraph 1, including the contextual information associated with each set of measurements as well as the outcome and conclusions of the review and any action taken in accordance with paragraph 2, shall be documented, maintained and be made available by the applicant, upon request, to the competent national authority of the Member State where the authorised use will take place.
- 5. The applicant may reduce the frequency of measurements, once they can demonstrate to the competent authority of the Member State where the use takes place, that exposure of humans (i.e. workers and general Opopulation) has been reduced to as low a level as technically and practically possible and



that the risk management measures and operational conditions corresponding to the specific exposure scenarios developed in the chemical safety report function appropriately.

- 6. Where the frequency of a monitoring programme has been reduced in accordance with paragraph 5, any subsequent changes to the operational conditions or risk management measures that may affect the exposure of workers and humans via the environment at each of the sites where the use takes place shall be documented. The applicant shall assess the impact of such changes by monitoring to demonstrate that exposure of workers continues and humans via the environment to be reduced to as low a level as technically and practically possible
- 7. The applicant shall continue their existing [annual] biomonitoring programme for the workers potentially exposed to Cr(VI).

#### Section 9: recommendation for the review report.

The results of the feasibility study as mentioned in section 7 and the measurements referred to in section 8.1 as well as the outcome and conclusions of the review and any actions taken in accordance with section 8.1 should be documented and included in any subsequent authorisation review report.