



FIELD GUIDE

EHSS-Phos Program – Hexavalent Chromium (CrVI)

NOTE: This Field Guide has been prepared for the exclusive use and benefit of Phosphate BU personnel of Mosaic Fertilizer, LLC. It is intended to provide a generic, non-exhaustive overview of the Phosphates BU "Hexavalent Chromium (CrVI)" Program. It is not a substitute for any provision of the Program or the underlying regulations; the user should consult the Program and the current regulations to ensure compliance.

EHSS-Phos Program Hexavalent Chromium (CrVI) describes the requirements and safeguards to minimize or prevent exposure to Hexavalent Chromium (CrVI) above the Permissible Exposure Level (PEL).

Exposure Monitoring is:

- Not required if exposure level is $< 2.5 \mu\text{g}/\text{m}^3$
- Required every 6 months if exposure level is $\geq 2.5 \mu\text{g}/\text{m}^3$ and $\leq 5 \mu\text{g}/\text{m}^3$
- Required every 3 months if exposure level is $> 5 \mu\text{g}/\text{m}^3$

Regulated areas must be clearly marked and access controlled if exposure level is $> 5 \mu\text{g}/\text{m}^3$

Engineering and Work Practice (E&WP) controls (i.e. local exhaust ventilation, general ventilation systems, isolation devices, good hygiene practices, etc.) shall be used to reduce and maintain employee exposure

At a minimum, the following PPE must be worn:

- Protective coveralls (flame resistant required for hot work)
- Protective gloves
- Protective eyewear
- Boots / booties

Respiratory protection is required:

- While implementing E&WP controls
- Where E&WP controls are not feasible, sufficient, or implemented

Contaminated PPE shall be removed at the end of the work shift or at the completion of their task

Contaminated PPE shall be stored and transported in sealed impermeable bags or other closed impermeable containers

PPE shall not be blown, shaken or otherwise handled such that Cr(VI) is released into the air or onto an employee's body

Personnel may not enter eating and drinking areas with protective work clothing or equipment

Employees shall not eat, drink, smoke, chew tobacco or gum, or apply cosmetics:

- In Regulated area(s) **OR**
- In areas where skin or eye contact with Cr(VI) occurs

Contaminated surfaces shall be cleaned by HEPA-filter vacuuming or other methods that minimize potential exposure

Compressed air shall only be used to remove Cr(VI) from any surface in conjunction with ventilation system designed to capture the dust cloud

This Field Guide provides only the most basic information about Hexavalent Chromium (CrVI). Our **Phosphate BU Hexavalent Chromium (CrVI)** Program provides much more detail on this topic. Here is the link to the BU Program:

<https://doculink.mosaicco.com/livellink/llisapi.dll/open/27053783>

If you need help accessing the BU Program, please contact your supervisor or a member of the EHS Department.

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