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Hexavalent Chromium

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NIOSH Pocket
Guide to Chemical

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Features and Use
Demo Video ~~NIOSH~~
~~Pocket Guide~~
~~(electronic)~~
~~Presentation~~
Hexavalent
Chromium

mobile NIOSH
Pocket Guide to
Chemical Hazards
Web Application
Usage and
Features ~~NIOSH~~

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Of Hexavalent
Chromium~~

~~CHM 131-009
Introducing the
mobile NIOSH
Pocket Guide to~~

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~~Web Application~~

Hexavalent

Chromium

Hexavalent

Chromium \u0026

Your Health

Hexavalent

Chromium

Sampling OSHA

ID-215

Cr(CO)₆: Chromium
hexacarbonyl.

Chrome plating

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Isolating chromium
from stainless steel
~~Hexavalent
Chromium~~
~~Google Chrome vs
Chromium - What's
the Difference?~~

The Health Benefits
of Chromium
Uso Correcto Escaleras
de Apoyo Breath
Easy - Welding
Presentation on
hexavalent
chromium Metal
Toxicology Expert

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Part 8: Effects of
high levels of
chromium

Energetic

Chromium (CrO₃
and

Peroxochromates) -
Ex\0026F

Experiments with
Chromium(VI)

Hexavalent

Chromium Safety
2016 ERG

(Emergency

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Response
(Guidebook) Video

Chromium
The Biological
Effects Of
Chromium 6: What
You Need To Know
Welding Fumes -
Practical Steps in
Controlling
Exposures to
Hexavalent
Chromium and
Manganese
Overview of the

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Emergency
Response
Guidebook (ERG)
2020 Hands-on
Activity

Demonstration:

Choosing an

Occupational

Exposure Limit

Occupational

hygiene What is

chromium-6? Niosh

Pocket Guide

Hexavalent

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Chromium

NIOSH. Up to 2.5
mg/m³: (APF = 5)

Any quarter-mask
respirator. Click
here for

information on
selection of N, R, or
P filters.*. Up to 5
mg/m³: (APF = 10)

Any particulate
respirator equipped
with an N95, R95,
or P95 filter

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(including N95,
R95, and P95
filtering facepieces)
except quarter-
mask respirators.

CDC - NIOSH
Pocket Guide to
Chemical Hazards -
Chromium metal
Hexavalent
chromium (Cr(VI))
compounds are a
large group of

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Hexavalent
Chromium

chemicals with
varying properties,
uses, and
workplace
exposures.

Hexavalent
chromium is
harmful to the
eyes, skin, and
respiratory system.
NIOSH considers all
Cr(VI) compounds
to be occupational
carcinogens.

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Workers may be harmed from exposure to hexavalent chromium.

Hexavalent
Chromium | NIOSH
| CDC
niosh At
concentrations
above the NIOSH
REL, or where
there is no REL, at

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any detectable
concentration: (APF
= 10,000) Any self-
contained
breathing
apparatus that has
a full facepiece and
is operated in a
pressure-demand
or other positive-
pressure mode

CDC - NIOSH
Pocket Guide to

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Chemical Hazards -
Chronic ...

NIOSH Safety and
Health Topic:

Hexavalent
Chromium;

Selected
Publications.

Criteria for a
Recommended
Standard: Welding,
Brazing, and
Thermal

Cutting—DHHS

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(NIOSH) No. 88-110
(1988). Welders
generally have a
40% increase in
relative risk of
developing lung
cancer as a result
of their work
exposures.

Chromium | NIOSH
| CDC

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Chromium Niosh
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Hexavalent
Chromium Project
Gutenberg (named
after the printing
press that
democratized
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Niosh Pocket Guide
Hexavalent
Chromium
Hexavalent
Chromium Fact
Sheet Plus. Oregon
OSHA, (October
2006). NIOSH
Pocket Guide to
Chemical Hazards.

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National Institute
for Occupational
Safety and Health
(NIOSH) Publication
No. 2005-149,
(September 2007).

Hexavalent
Chromium -
Additional
Resources |
Occupational ...
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Hexavalent
Chromium Niosh
Pocket Guide

Hexavalent
Chromium As
recognized,
adventure as
competently as
experience more or
less lesson,
amusement, as
skillfully as accord
can be gotten by
just checking out a

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book niosh pocket
guide hexavalent
chromium

moreover it is not
directly done, you
could consent even
more something
like this life, going
on for the world.

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Hexavalent
Chromium
CHROMIUM,

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HEXAVALENT:

Method 7605, Issue
1 dated 15 March
2003 - Page 4 of 5
NIOSH Manual of
Analytical Methods
(NMAM), Fourth
Edition

CALCULATIONS:

12. From the
calibration graph,
determine the
mass of Cr(VI) in
each sample, W

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(:g), and in the
average blank, B
(:g). 13. Calculate
concentration, C
(mg/m³), of Cr(VI)
in the air volume
sampled, V (L):

CHROMIUM,
HEXAVALENT 7605
by Ion
Chromatography
Listed below are
changes made for

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the 3rd printing of this edition of the Pocket Guide: □ Changes were made to reflect the new OSHA PEL for hexavalent chromium. □ The NIOSH REL for coal mine dust was added to the coal dust entry. □ A few other minor technical changes

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Hexavalent Chromium
have been made.

Chromium

NIOSH Pocket
Guide to Chemical
Hazards

(2005-149) 3rd
printing

A survey of
occupational
exposure to
hexavalent
chromium in
chromate pigment
production was

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Hexavalent
Chromium
undertaken in
factories producing
lead chromate
(PbCrO_4) ... NIOSH.
NIOSH Pocket
Guide to Chemical
Hazards.

Department of
Health & Human
Services, Centers
for Disease Control
& Prevention.

National Institute
for Occupational

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Safety & Health.

Chromium

Strontium

chromate | SrCrO_4

- PubChem

NIOSH Pocket

Guide International

Chem Safety Card;

Chromium metal:

CHROMIUM; NFPA

704. data

unavailable.

General

Description.

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Hexavalent Chromium

DESCRIPTION: Very hard gray solid with a metallic luster.

(NTP, 1992) ...

CHROMIUM reacts violently with NH_4NO_3 , N_2O_2 , Li, NO, KClO_3 , SO_2 (NTP, 1992). Metal dusts when suspended in atmospheres of carbon dioxide ...

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Hexavalent

CHROMIUM |

CAMEO Chemicals |

NOAA

Hexavalent

chromium [Cr(VI)]

is one of the

valence states (+6)

of the element

chromium. It is

usually produced

by an industrial

process. Cr(VI) is

known to cause

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cancer. In addition, it targets the respiratory system, kidneys, liver, skin and eyes.

Chromium metal is added to alloy steel to increase hardenability and corrosion resistance.

Hexavalent
Chromium -

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Overview |

Occupational
Safety and ...

Hexavalent chromium is classified by NIOSH as a potential occupational carcinogen, (1 National Institute for Occupational Safety and Health (NIOSH). 1997.

NIOSH Pocket

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Guide to Chemical
Hazards,

Cincinnati, Ohio:

NIOSH. (DHHS,

CDC, NIOSH

97-140) [Google

Scholar]) and is

widely used in U.S.

industries. The

potential for worker

exposures to Cr(VI)

has been identified

in industrial sectors

represented by at

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Hexavalent
Chromium

least 46 different
two-digit Standard
Industrial
Classification (SIC)
codes.

Hexavalent
Chromium
Exposures and
Exposure-Control

...

The National
Institute for
Occupational

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Safety and Health
has just issued a
new recommended
exposure limit
(REL) for
occupational
exposure to
hexavalent
chromium
compounds. The
NIOSH Criteria for a
Recommended
Standard:
Occupational

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Exposure to
Hexavalent
Chromium,
Publication Number
2013-128 (January
2013), sets a
significantly lower
recommended
exposure limit, that
the Agency admits
many industries
will not be able to
achieve.

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NIOSH Lowers
Advised Exposure
Limit For Airborne

...

New NIOSH
Recommended
airborne
hexavalent
chromium
Exposure Levels
The Occupational
Safety & Health
Administration
(OSHA) currently

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has defined two levels of hexavalent chromium exposure. The current Permissible Exposure Level (PEL) is $5 \mu\text{g}/\text{m}^3$ in an 8-hr shift from an original PEL (pre May 2010) of $52 \mu\text{g}/\text{m}^3$.

NIOSH

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Recommendations
for Hexavalent
Chromium - 2013

...

Among hexavalent chromium compd, barium chromate showed a low absorption rate near that of trivalent chromium compd. The biological half-time was 18 days. ...

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NIOSH. NIOSH
Pocket Guide to
Chemical Hazards.
Department of
Health & Human
Services, Centers
for Disease Control
& Prevention.
National Institute
for Occupational
Safety & Health.

Barium chromate |
BaCrO4 - PubChem

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NIOSH Pocket
Guide to Chemical
Hazards [DHHS
(NIOSH) Publication
No. 97-140, June
1997] and the
Recommendations
for Chemical
Protective Clothing:
A Companion to
the NIOSH Pocket
Guide to Chemical
Hazards [NTIS No.
PB98-137730,

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February 1998].

Consult these references for more complete information. MSHA standards require that PPE be

CHAPTER 3 CONTAMINANT INDEX

OSHA Final Rule:
Occupational
Exposure to

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Hexavalent
Chromium OSHA
Small Entity
Compliance Guide
for Hexavalent
Chromium
Standard:
View/Download
PDF NIOSH
Website: Safety &
Health/Hexavalent
Chromium

Technical

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Specifications of
Extract-All
Equipment &
Products

Hexavalent
chromium
deposition was
highest in the
alveolar region
(14%) compared to
other regions of the
respiratory system.
Future research
should focus on

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other welding processes such as SMAW, FCAW, and gas tungsten arc welding. ... NIOSH. NIOSH Pocket Guide to Chemical Hazards. U.S. Government Printing Office; Pittsburgh, PA: 2007.

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This is latest
edition of the
NIOSH Pocket
Guide to Chemical
Hazards and
presents
information taken
from the
NIOSH/OSHA
Occupational
Health Guidelines
for Chemical
Hazards, from
National Institute

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for Occupational
Safety and Health
(NIOSH) criteria
documents and
Current Intelligence
Bulletins, and from
recognized
references in the
fields of industrial
hygiene,
occupational
medicine,
toxicology, and
analytical

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chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices. The information in the Pocket Guide includes chemical structures or formulas,

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Hexavalent
Chromium
identification
codes, synonyms,
exposure limits,
chemical and
physical properties,
incompatibilities
and reactivities,
measurement
methods, respirator
selections, signs
and symptoms of
exposure, and
procedures for
emergency

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Hexavalent Chromium
treatment. The information assembled in the original 1978 printing of the Pocket Guide was the result of the Standards Completion Program, a joint effort by NIOSH and the Department of Labor to develop

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Supplemental
Chromium
requirements for
the approximately
380 workplace
environmental
exposure
standards adopted
by the
Occupational
Safety and Health
Administration
(OSHA) in 1971.
Following are
changes that were

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made for this
edition (2005-149)
of the Pocket
Guide: * New
layout for the
Chemical Listing
section. *

Recommendations
for particulate
respirators have
been revised to
incorporate "Part
84" terminology.
See

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"Recommendations
for Respirator
Selection" on page
xiv for a more
thorough
explanation of
these changes. *

The Synonym and
Trade Name Index
has been
expanded. This
index is now called
the Chemical,
Synonym, and

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Trade Name Index
(page 383). * Some
ID and Guide

Numbers were
changed to reflect
changes made in
the 2004

Emergency
Response

Guidebook (<http://hazmat.dot.gov/publications/erg/guidebook.htm>). * Appendix E
(page 351) has

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Hexavalent Chromium
has been revised. It
now contains OSHA
respirator

requirements for
28 chemicals or
hazardous
substances that
were identified in
the preamble to
the OSHA

Respiratory
Protection

Standard (29 CFR
1910.134). * Other

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Hexavalent Chromium

minor technical changes have also been made since the February 2004 edition. (For the most current information and updates, consult the electronic version on the NIOSH Web site: <http://www.cdc.gov/niosh/npg/npg.html>.)

Following are

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Hexavalent Chromium
changes made for this the 3rd printing of this edition of the Pocket Guide: * Changes were made to reflect the new OSHA PEL for hexavalent chromium. * The NIOSH REL for coal mine dust was added to the coal dust entry. * A few

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Hexavalent
Chromium
other minor
technical changes
have been made.

Gives you quick
access to the

Page 59/70

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Hexavalent
Chromium

information you need to recognize and deal with chemical hazards in the workplace. It recommends appropriate actions to take when encountering a potentially hazardous substance, including the latest data on: chemical

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types and descriptions, health hazards, exposure signs and symptoms, emergency treatment, personal protection, cleanup precautions and much more.

Provides key information and data on 677

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hazardous
chemicals or
substances that
you may encounter
in the work
environment. Spiral
bound.

The NIOSH Pocket
Guide to Chemical
Hazards presents
information taken
from the
NIOSH/OSHA

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Occupational
Health Guidelines
for Chemical
Hazards, from
National Institute
for Occupational
Safety and Health
(NIOSH) criteria
documents and
Current Intelligence
Bulletins, and from
recognized
references in the
fields of industrial

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Hygiene, occupational medicine, toxicology, and analytical chemistry. The information is presented in tabular form to provide a quick, convenient source of information on general industrial hygiene practices.

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The information in the Pocket Guide includes chemical structures or formulas, identification codes, synonyms, exposure limits, chemical and physical properties, incompatibilities and reactivities, measurement methods, respirator

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Hexavalent
Chromium
selections, signs
and symptoms of
exposure, and
procedures for
emergency
treatment.

This study,
commissioned by
the National
Aeronautics and
Space

Page 66/70

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Administration
(NASA), examines
the role of robotic
exploration
missions in
assessing the risks
to the first human
missions to Mars.
Only those hazards
arising from
exposure to
environmental,
chemical, and
biological agents

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on the planet are assessed. To ensure that it was including all previously identified hazards in its study, the Committee on Precursor Measurements Necessary to Support Human Operations on the Surface of Mars

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referred to the
most recent report
from NASA's Mars
Exploration
Program/ Payload
Analysis Group
(MEPAG) (Greeley,
2001). The
committee
concluded that the
requirements
identified in the
present NRC report
are indeed the only

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ones essential for
NASA to pursue in
order to mitigate
potential hazards
to the first human
missions to Mars.

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27f3621ce86c8a07
f15786402c8a8f