



NIOSH Pocket Guide to Chemical Hazards

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Uranium (soluble compounds, as U)

CAS

RTECS

Synonyms & Trade Names

Synonyms vary depending upon the specific soluble uranium compound.

DOT ID & Guide

Exposure

NIOSH REL: Ca TWA 0.05 mg/m³ [See Appendix A](#)

Limits

OSHA PEL: TWA 0.05 mg/m³IDLH Ca [10 mg/m³ (as U)] See: [uranium](#)

Conversion

Physical Description

Appearance and odor vary depending upon the specific soluble uranium compound.

Properties vary depending upon the specific soluble uranium compound.

Incompatibilities & Reactivities

Uranyl nitrate: combustibles Uranium hexafluoride: water

Measurement Methods

None available

See: [NMAM](#) or [OSHA Methods](#)

Personal Protection & Sanitation [\(See protection codes\)](#)

Skin: Prevent skin contact
 Eyes: Prevent eye contact
 Wash skin: When contaminated/Daily
 Remove: When wet or contaminated
 Change: Daily
 Provide: Eyewash (UF6), Quick drench

First Aid [\(See procedures\)](#)

Eye: Irrigate immediately
 Skin: Water flush immediately
 Breathing: Respiratory support
 Swallow: Medical attention immediately

Respirator Recommendations NIOSH

At concentrations above the NIOSH REL, or where there is no REL, at 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
 (APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

Escape (Halides):

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted acid gas canister having an N100, R100, or P100 filter. [Click here](#) for information on selection of N, R, or P filters./Any appropriate escape-type, self-contained breathing apparatus

Escape (Non-halides):

(APF = 50) Any air-purifying, full-facepiece respirator with an N100, R100, or P100 filter. [Click here](#) for information on selection of N, R, or P filters./Any appropriate escape-type, self-contained breathing apparatus

[Important additional information about respirator selection](#)

Exposure Routes inhalation, ingestion, skin and/or eye contact

Symptoms Lacrimation (discharge of tears), conjunctivitis; shortness breath, cough, chest rales; nausea, vomiting; skin burns; red blood cell, casts in urine; proteinuria; high blood urea nitrogen; [potential occupational carcinogen] [Potential for cancer is a result of alpha-emitting properties & radioactive decay products (e.g., radon).]

Target Organs respiratory system, blood, liver, kidneys, lymphatic system, skin, bone marrow

Cancer Site [lung cancer]

See also: [INTRODUCTION](#) See MEDICAL TESTS: [0239](#)