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Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals

Sub-Committee of Experts on the Transport of Dangerous Goods

4 June 2014

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Geneva, 23 June – 2 July 2014

Uranium fluoride

Transmitted by the World Nuclear Transport Institute (WNTI)



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Uranium fluoride

RTECS #: YR4720000

CAS #: 7783-81-5

UPDATE: May 2009	MW: 352.00	MF: F₆U
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NOTE:

- **TOXICITY DATA HAVE NOT BEEN EVALUATED. OMISSION OF A SUBSTANCE OR NOTATION DOES NOT IMPLY ANY RELIEF FROM REGULATORY RESPONSIBILITY.**

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SYNONYMS:	
N/R	N/R

SKIN AND EYE IRRITATION DATA AND REFERENCES:			

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

MUTATION DATA AND REFERENCES:			
SYSTEM TEST	ROUTE/ ORGANISM/ TISSUE	DOSE	REFERENCE
N/R	N/R	N/R	N/R

REPRODUCTIVE EFFECTS DATA AND REFERENCES:			
ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

TUMORIGENIC DATA AND REFERENCES:			
ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

ACUTE TOXICITY DATA AND REFERENCES:			
ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
inhalation dog	lethal concentration : 20 mg/m ³	Eye: Conjunctiva irritation Lung, Thorax, or Respiration: Other changes Kidney, Ureter, and Bladder: Other changes	VCVN5* -,354,1993
inhalation guinea pig	lethal concentration : 942 mg/m ³ /10 minute	N/R	VCVN5* -,354,1993
inhalation mouse	lethal concentration : 942 mg/m ³ /10 minute	N/R	VCVN5* -,354,1993
		N/R	

inhalation rat	lethal concentration : 942 mg/m ³ /10 minute	VCVN5* -,354,1993
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OTHER MULTIPLE DOSE DATA AND REFERENCES:

ROUTE/ ORGANISM	DOSE	EFFECT	REFERENCE
N/R	N/R	N/R	N/R

REVIEWS:

ORGANIZATION	STANDARD	REFERENCE
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value	time-weighted average 2.5 mg (F)/m ³	DTLVS* TLV/BEI,2007
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value	time-weighted average 0.2 mg (U)/m ³ ;short term exposure limit 0.6 mg(U)/m ³	DTLVS* TLV/BEI,2007
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value	Confirmed human carcinogen	DTLVS* TLV/BEI,2007
TOXICOLOGY REVIEW		HBTME* ,881,2007
TOXICOLOGY REVIEW		HTOPA* 1,701,2002

STANDARDS AND REGULATIONS:

ORGANIZATION	STANDARD	REFERENCE
Mine Safety and Health Administration (MSHA) STANDARD - air	time-weighted average 0.2 mg(U)/m ³	DTLVS* 3,274,1971
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (General Industry)	8 hour time-weighted average 0.05 mg(U)/m ³	CFRGBR 29,1910.1000,1994
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (General Industry)	8 hour time-weighted average 2.5 mg(F)/m ³	CFRGBR 29,1910.1000,1994
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Construction)	8 hour time-weighted average 0.2 mg(U)/m ³	CFRGBR 29,1926.55,1994

Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Construction)	8 hour time-weighted average 2.5 mg(F)/m ³	CFRGBR 29,1926.55,1994
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Shipyards)	8 hour time-weighted average 0.05 mg(U)/m ³	CFRGBR 29,1915.1000,1993
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Shipyards)	8 hour time-weighted average 2.5 mg(F)/m ³	CFRGBR 29,1915.1000,1993
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Federal Contractors)	8 hour time-weighted average 0.05 mg(U)/m ³	CFRGBR 41,50-204.50,1994
Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (Federal Contractors)	8 hour time-weighted average 2.5 mg(F)/m ³	CFRGBR 41,50-204.50,1994
Occupational Exposure Limit - AUSTRALIA	time-weighted average 2.5 mg(F)/m ³ , JUL2008	
Occupational Exposure Limit - BELGIUM	time-weighted average 0.2 mg(U)/m ³ , short term exposure limit 0.6 mg(U)/m ³ , MAR2002	
Occupational Exposure Limit - BELGIUM	time-weighted average 2.5 mg(F)/m ³ , MAR2002	
Occupational Exposure Limit - DENMARK	time-weighted average 2.5 mg(F)/m ³ , OCT 2002	
Occupational Exposure Limit - EC	time-weighted average 2.5 mg(F)/m ³ , FEB 2006	
Occupational Exposure Limit - FINLAND	time-weighted average 0.2 mg(U)/m ³ , JAN1999	
Occupational Exposure Limit - FINLAND	time-weighted average 2.5 mg(F)/m ³ , JAN1999	
Occupational Exposure Limit - FRANCE	VME 2.5 mg(F)/m ³ , FEB2006	
Occupational Exposure Limit - GERMANY	MAK 1 mg(F)/m ³ (inhalable), 2005	
Occupational Exposure Limit - HUNGARY	time-weighted average 2.5 mg(F)/m ³ , short term exposure limit 10 mg(F)/m ³ , Skin, SEP2000	
Occupational Exposure Limit - KOREA	time-weighted average 0.2 mg(U)/m ³ , short term exposure limit 0.6 mg(U)/m ³ , 2006	
Occupational Exposure Limit - MEXICO	time-weighted average 2.5 mg(F)/m ³ , 2004	
Occupational Exposure Limit - NEW ZEALAND	time-weighted average 0.2 mg(U)/m ³ , carcinogen, JAN2002	
Occupational Exposure Limit - NEW ZEALAND	time-weighted average 2.5 mg(F)/m ³ , JAN2002	
Occupational Exposure Limit - NORWAY	time-weighted average 0.2 mg(U)/m ³ , JAN1999	
	time-weighted average 0.05 mg(U)/m ³ , JAN1993	

Occupational Exposure Limit - THE PHILIPPINES	
Occupational Exposure Limit - THE PHILIPPINES	time-weighted average 0.25 mg(U)/m ³ , JAN1993
Occupational Exposure Limit - THE PHILIPPINES	time-weighted average 2.5 mg(F)/m ³ , JAN1993
Occupational Exposure Limit - POLAND	MAC(time-weighted average) 0.075 mg(U)/m ³ , MAC(short term exposure limit) 0.6 mg(U)/m ³ , JAN1999
Occupational Exposure Limit - POLAND	MAC(time-weighted average) 0.075 mg(U)/m ³ , JAN1993
Occupational Exposure Limit - POLAND	MAC(time-weighted average) 1 mg(HF)/m ³ , MAC (short term exposure limit) 3 mg(HF)/m ³ , JAN1999
Occupational Exposure Limit - RUSSIA	short term exposure limit 0.015 mg(U)/m ³ , JUN2003
Occupational Exposure Limit - RUSSIA	short term exposure limit 0.075 mg(U)/m ³ , JUN2003
Occupational Exposure Limit - SWEDEN	time-weighted average 2 mg(F)/m ³ , JUN2005
Occupational Exposure Limit - SWITZERLAND	MAK- week 1 mg(F)/m ³ ,KZG- week 4 mg(F)/m ³ , Skin, DEC2006
Occupational Exposure Limit - SWITZERLAND	MAK- week 0.2 mg(U)/m ³ , DEC2006
Occupational Exposure Limit - THAILAND	time-weighted average 2.5 mg(F)/m ³ , JAN1993
Occupational Exposure Limit - TURKEY	time-weighted average 0.05 mg(U)/m ³ , JAN1993
Occupational Exposure Limit - TURKEY	time-weighted average 2.5 mg(F)/m ³ , JAN1993
Occupational Exposure Limit - UNITED KINGDOM	time-weighted average 2.5 mg(F)/m ³ , 2005
Occupational Exposure Limit IN ARGENTINA, BULGARIA, COLOMBIA, JORDAN	American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value; Confirmed human carcinogen
Occupational Exposure Limit IN SINGAPORE, VIETNAM	American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value Confirmed human carcinogen

NIOSH DOCUMENTATION AND SURVEILLANCE:

ORGANIZATION	STANDARD or SURVEY	REFERENCE
N/R	N/R	N/R

STATUS IN FEDERAL AGENCIES:

ORGANIZATION	REFERENCE
N/R	

REFERENCES:

CODEN	REFERENCE
CFRGBR	Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402)
DTLVS*	The Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996
HBTME*	
HTOPA*	
VVCVN5*	"Vrednie chemichescie veshstva. Neorganicheskie soedinenia elementov V-VII groopp" (Hazardous substances. Inorganic substances containing V-VII group elements), Bandman A.L. et al., Chimia, 1989.

NIOSH PROFILE (URANIUM AND ITS COMPOUNDS), SRC, 4/78

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