

TEELs Online Searchable Database

Chad Ogden
ATL International
SCAPA 2007 Annual Meeting



EMERGENCY MANAGEMENT ROUNDUP

EXPECT THE UNEXPECTED

Chemical Safety Program: ERPGs and TEELs for Chemicals of Concern - Microsoft Internet Explorer

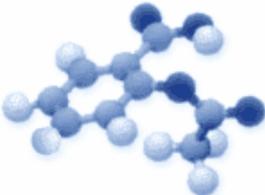
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Address <http://www.atlintl.com/DOE/teels/teel.html>

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AEGLs, ERPGs or Rev. 21 TEELs for Chemicals of Concern 2005



**TEELs
Database
System**

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[DEFINITIONS](#)

- [Search the Database for Existing ERPGs and TEELs](#)
- [Existing ERPG and TEEL Tables in PDF and Excel Format](#)

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TEEL Database Home

Searchable TEEL Database

- AEGL, ERPG, and TEEL values drawn from TEEL tables and spreadsheets
- “Input data” utilized in calculating TEEL values, e.g., exposure limits, toxicity, and other data
- Emergency response and chemical hazard data not included in the TEEL tables

Additional Data Provided

- Selected CAMEO Data – Synonyms, Fire and Emergency Response data, Reactivity guidance, Protective equipment
- Emergency Response Guidebook – Including isolation and protective distances
- NIOSH Pocket Guide

TEEL Database Advantages

- Searchable by:
 - Chemical Name
 - Synonyms
 - CAS, SAX, UN, and Health Code #s
 - Chemical Formula
- “Input data” and data from other sources (CAMEO, DOT, NIOSH)
- Various Data Reports Available
 - Complete data report
 - User-selected data reports

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SCAPA
website
provides
link to
database

Rev. 22
TEEL Data
to be
posted
soon!

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Chemical Safety Program: TEELs Search - Microsoft Internet Explorer

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Address <http://www.atintl.com/DOE/teels/teel/search.html>

Search Web

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Search the TEEL Database

CAS Number:
(For example, 7782-50-5)

Chemical Name:

Chemical Formula:

SAX Number:

UN Number:

Health Code Number:
Hold the Control [Ctrl] key down to select multiple Health Code Numbers.

1.00 OSHA carcinogen (29 CFR 1910.1000)
1.01 Bladder carcinogen
1.02 Liver carcinogen
2.00 Suspect carcinogen or mutagen

Search Reset

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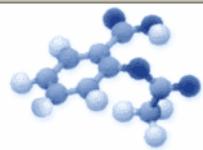
Multiple search fields

Search fields individually or together

Search partial or full words and numbers

EMERGENCY MANAGEMENT ROUNDUP

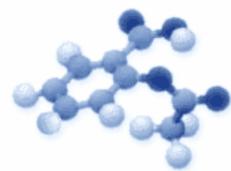
EXPECT THE UNEXPECTED



[TEEL Database Home](#) [New Data](#)

Chemical	CAS#	TEELs			
		TEEL-0	TEEL-1	TEEL-2	TEEL-3
Carbachol Chloride	51-83-2	3	7.5	15	15
Chlorine	7782-50-5	0.5	0.5	2	20
Chlorine dioxide	10049-04-4	0.1	0.15	1.1	2.4
Chlorine Hi dry granular (as Cl)	z-0006	0.5	1	3	20
Chlorine pentafluoride	13637-63-3	3.5	3.5	3.5	60
Chlorine trifluoride	7790-91-2	0.1	0.12	2	21
Cyanogen chloride	506-77-4	0.3	0.3	0.4	4
Nitrosyl chloride	2696-92-6	0.025	0.075	0.5	2.5
Perchloryl fluoride; (Chlorine oxyfluoride)	7616-94-6	3	6	15	100
Sodium chlorite	7758-19-2	0.75	2.5	15	75

Chemical names in bold font correspond to AEGL values established by AIHA.
 TEEL values marked by * are >= 10% lower explosive limit (L).
 TEEL values marked by ** are > 50% LEL but < 100% LEL.



TEEL Database Report Options

[TEEL Database Home](#) [New Database Search](#)

Viewing Options for Chlorine

Select the sections you wish to view for Chlorine:
 Click the section name for a description

- [Physical Properties](#)
- [Complete TEEL Values](#)
- [Exposure Limits](#)
- [Toxicity Data](#)
- [Health Information](#)
- [Emergency Response Information](#)
- [2004 DOT Emergency Response Guide](#)
- [NIOSH Pocket Guide to Chemical Hazards](#)
- [Full Report](#)

[View](#)

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Chemical Safety Program: TEELs Search Result - Microsoft Internet Explorer

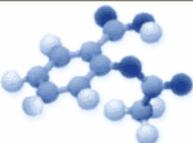
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Address http://www.atintl.com/DOE/teels/teel/complete.asp

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TEEL Search Result - Detail View

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CHEMICAL IDENTITY

Chemical	CAS#	SAX#	UN#	Health Code Numbers		
Chlorine	7782-50-5	CDV750	1017	4.00	14.00	11.00

Formula	Synonyms
Cl2	CHLORINE; BERTHOLITE; CHLORE (DOT FRENCH); CHLORINE MOL.; CHLORINE MOLECULE (CL2); CLORO (DOT SPANISH); DIATOMIC CHLORINE; DICHLORINE; MOLECULAR CHLORINE

PHYSICAL PROPERTIES

Description Chlorine is a greenish yellow gas with a pungent suffocating odor. It is toxic by inhalation. It is slightly soluble in water. It reacts explosively or forms explosive compounds, with many common chemicals. Contact with liquid should be avoided as it can cause frostbite. The liquid readily vaporizes to a gas. Chlorine does not burn but will support combustion similar to oxygen. Long term exposure to low concentrations or short term exposure to high concentrations may result in adverse health effects from inhalation. The vapors are much heavier than air and tend to settle in low areas. Contact CHEMTREC to activate chlorine response team 800 424-9300. It weighs 13.0 lbs./gal. It is used to purify water, bleach wood pulp, and to make other chemicals. (© AAR, 1999)

Mol Wt	State	MP (°C)	BP (°C)	VP (Hg)	VP (°C)	SG	LEL
70.90	G	-101.1	-33.9	5740	25	1.47 liq @ 0 C	

TEEL VALUES (Original Units)

TEEL-0	TEEL-1	TEEL-2	TEEL-3	Units
0.5	0.5	2	20	ppm

Comments ERPG-1, -2, -3, final AEGL-2, -3. T-1, T-2 changed.

TEEL VALUES (mg/m3)

TEEL-0	TEEL-1	TEEL-2	TEEL-3
1.45	1.45	6	58

The reports are customized as specified by the user

Reports include pop-up windows for abbreviations

Chemicals of Most Interest

- 1) Chlorine
- 2) Ammonia
- 3) Methyl alcohol
- 4) Benzene
- 5) Formaldehyde
- 6) Methyl ether
- 7) Toluene
- 8) Hydrogen fluoride
- 9) Sulfur dioxide
- 10) Acetone
- 11) Sodium hydroxide
- 12) Nitric acid WFNA

Account for 15% of all report views

Top 10 Countries Accessing Database

- 1) United States
- 2) Canada
- 3) Germany
- 4) France
- 5) Italy
- 6) Netherlands
- 7) Spain
- 8) United Kingdom
- 9) Switzerland
- 10) Australia

TEEL Data and Search Database

<http://orise.orau.gov/emi/scapa/teels.htm>

QUESTIONS?