Click [http://www.guidechem.com/cas-120/12042-91-0.html](http://www.guidechem.com/cas-120/12042-91-0.html) for suppliers of this product

### Aluminum chloride hydroxide (Al2Cl(OH)5) (cas 12042-91-0) MSDS

**MSDS** : Aluminum chloride hydroxide (Al2Cl(OH)5)

**CAS** : 12042-91-0

**SYNONYMS** :
* Aluminum chlorhydrate
* Aluminum chlorhydrol
* Aluminum hydroxide chloride
* Aluminum hydroxychloride
* Astringen
* Basic aluminum chlorate
* Chlorhydrol
* Chlorhydrol, granular
* Chlorhydrol, impalpable
* Chlorhydroxyl
* Chloropentahydroxydialuminum
* Locron Extra
* Locron flakes
* Locron powder
* Locron solution
* Macrospherical 95
* Micro dry
* Wickenol 303
* Wickenol 321
* Wickenol 323
* Wickenol 324

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**Chemical Identification**

**RTECS NUMBER** : BD0550000

**CHEMICAL NAME** : Aluminum chloride hydroxide (Al2Cl(OH)5)

**CAS REGISTRY NUMBER** : 12042-91-0

**LAST UPDATED** : 199712

**DATA ITEMS CITED** : 21

**MOLECULAR FORMULA** : Al2-Cl-H5-O5

**MOLECULAR WEIGHT** : 174.46

**WISWESSER LINE NOTATION** : .AL2.Q5-G

**Compound Descriptor** : Primary Irritant

**Synonyms/Trade Names** :
* Aluminum chlorhydrate
* Aluminum chlorhydrol
* Aluminum hydroxide chloride
* Aluminum hydroxychloride
* Astringen
* Basic aluminum chlorate
* Chlorhydrol
* Chlorhydrol, granular
* Chlorhydrol, impalpable
* Chlorhydroxyl
* Chloropentahydroxydialuminum
* Locron Extra
* Locron flakes
* Locron powder
* Locron solution
* Macrospherical 95
* Micro dry
* Wickenol 303
* Wickenol 321
* Wickenol 323
* Wickenol 324

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**Health Hazard Data**

**Type of Test** : Standard Draize test

**Route of Exposure** : Administration onto the skin

**Species Observed** : Human

**Dose/Duration** : 150 mg/3D (Intermittent)

**Reaction Severity** : Mild

**Reference** :
** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST : TCLo - Lowest published toxic concentration  
ROUTE OF EXPOSURE : Inhalation  
SPECIES OBSERVED : Rodent - rat  
DOSE/DURATION : 25 mg/m3/6H/2Y-I  
TOXIC EFFECTS :  
- Lungs, Thorax, or Respiration - other changes  
- Lungs, Thorax, or Respiration - changes in lung weight  
REFERENCE :  

TYPE OF TEST : TCLo - Lowest published toxic concentration  
ROUTE OF EXPOSURE : Inhalation  
SPECIES OBSERVED : Rodent - guinea pig  
DOSE/DURATION : 25 mg/m3/6H/2Y-I  
TOXIC EFFECTS :  
- Lungs, Thorax, or Respiration - fibrosis, focal (pneumoconiosis)  
- Lungs, Thorax, or Respiration - changes in lung weight  
REFERENCE :  
JEPTDQ Journal of Environmental Pathology and Toxicology. (Park Forest South, IL) V.1-5(3), 1977-81(?). For publisher information, see JEPOEC. Volume(issue)/page/year: 1(3),267,1978

*** REVIEWS ***

ACGIH TLV-TWA 2 mg(A1)/m3  
DTLVS* The Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996 Volume(issue)/page/year: TLV/BEl,1997

*** OCCUPATIONAL EXPOSURE LIMITS ***

OEL-AUSTRALIA:TWA 2 mg(A1)/m3 JAN 1993  
OEL-BELGIUM:TWA 2 mg(A1)/m3 JAN 1993  
OEL-DENMARK:TWA 2 mg(A1)/m3 JAN 1993  
OEL-FRANCE:TWA 2 mg(A1)/m3 JAN 1993  
OEL-THE NETHERLANDS:TWA 2 mg(A1)/m3 JAN 1993  
OEL-RUSSIA:TWA 2 mg(A1)/m3 JAN 1993  
OEL-SWEDEN:TWA 2 mg(A1)/m3 JAN 1993  
OEL-SWITZERLAND:TWA 2 mg(A1)/m3 JAN 1993  
OEL-UNITED KINGDOM:TWA 2 mg(A1)/m3 JAN 1993  
OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV  
OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGIH TLV
NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA:
NOHS Hazard Code - 83033
No. of Facilities: 147 (estimated)
No. of Industries: 3
No. of Occupations: 12
No. of Employees: 21060 (estimated)

NOES Hazard Code - 83033
No. of Facilities: 354 (estimated)
No. of Industries: 4
No. of Occupations: 14
No. of Employees: 12125 (estimated)
No. of Female Employees: 4591 (estimated)

*** STATUS IN U.S. ***

EPA TSCA Section 8(b) CHEMICAL INVENTORY

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

*** END OF RECORD ***