### MSDS-OHS (Material Safety Data Sheets - OHS)

| Subject Coverage | • MSDS  
<table>
<thead>
<tr>
<th></th>
<th>• Health and Safety data</th>
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</thead>
<tbody>
<tr>
<td>File Type</td>
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</table>
| Features         | Thesaurus: None          
|                  | Alerts (SDIs): Not available |
|                  | CAS Registry Number® Identifiers: ✔  
|                  | Page Images: No  
|                  | STN® AnaVist™: No  
|                  | Keep & Share: ✔  
|                  | SLAR® Easy®: ✔  
|                  | Learning Database: No  
|                  | Structures: No  
|                  | STN® Viewer™: No  
| Record Content   | Full text of Material Safety Data Sheets (MSDS) with occupational, environmental, and regulatory data, as well as names, CAS Registry Numbers, and regulatory list numbers for pure substances, mixtures, and pesticides, many of which are the most heavily used chemicals in industry. |
| File Size        | 61,256 records (12/2014) |
| Coverage         | Current data from hundreds of sources which are reviewed annually to provide comprehensive, up-to-date material safety data sheets. |
| Updates          | Reloaded quarterly         |
| Language         | English                    |
| Database Producer| ChemADVISOR, Inc.  
|                  | Stone Quarry Crossing  
|                  | 811 Camp Horne Road, Suite 220  
|                  | Pittsburgh, PA 15237 USA  
|                  | Phone: 412-847-2000  
|                  | Fax: 412-847-2010  
|                  | Email: info@chemadvisor.com |
| Sources          | Produced from reviews of U.S. and international sources including books, conference proceedings, government reports, journals, etc. |
| User Aids        | Online Helps (HELP DIRECTORY lists help messages available) |
Clusters

- CASRNS
- GOVREGS
- HEALTH
- MATERIALS
- SAFETY
- TOXICOLOGY

STN Database Clusters information (PDF).

Pricing

Enter HELP COST at an arrow prompt (=>).
**Search and Display Field codes**

There are no fields that allow left truncation in this file.

<table>
<thead>
<tr>
<th>Search Field Name</th>
<th>Search Code</th>
<th>Search Examples</th>
<th>Display Codes</th>
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<tr>
<td>Basic Index (contains single words from the full MSDS document)</td>
<td>None (or /BI)</td>
<td>S 4759-48-2&lt;br&gt;S 13-CIS-RETINOIC ACID&lt;br&gt;S SPILL?(L)WATER&lt;br&gt;S L1 AND FIRST AID</td>
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<tr>
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<td>S 4759-48-2/RN&lt;br&gt;S FORMALDEHYDE/CN AND 1/RN.CNT&lt;br&gt;S ISOTOPES, DERIVATIVES/CI</td>
<td>RN&lt;br&gt;Not displayed</td>
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<td>S ACCUTANE/CN&lt;br&gt;S RO 4-3780/CN&lt;br&gt;S C20H28O2/MF&lt;br&gt;S EN/LA</td>
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<td>OHS Number (Document Number)</td>
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<td>OHSN&lt;br&gt;RLN&lt;br&gt;RDAT</td>
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</table>

(1) Numeric search field that may be searched with numeric operators or ranges.
**DISPLAY and PRINT Formats**

Any combination of formats may be used to DISPLAY or PRINT answers. Multiple codes must be separated by spaces or commas, e.g., D RN CN. The fields are displayed or printed in the order requested.

Hit-term highlighting is available in all fields except AN. Highlighting must be ON to use the HIT, KWIC, and OCC formats.

<table>
<thead>
<tr>
<th>Format</th>
<th>Content</th>
<th>Examples</th>
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<tr>
<td>CI (FN)</td>
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<tr>
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<tr>
<td>RDAT</td>
<td>Issue (Revision) Date</td>
<td>D RDAT 1-3</td>
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<td>RLN</td>
<td>Regulatory List Numbers</td>
<td>D RLN</td>
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<tr>
<td>SECTIONn (1)</td>
<td>Section n (Sections 1 through 16)</td>
<td>D SECTION15</td>
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<tr>
<td>ALL</td>
<td>Full MSDS document</td>
<td>D ALL</td>
</tr>
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<td>BIB</td>
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<td>D L2 7 NOH IDE D</td>
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<td>SUMM</td>
<td>MSDS summary</td>
<td>D L1 SUMM 2</td>
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<tr>
<td>KWIC</td>
<td>Hit terms plus 20 words on either side (KeyWord-In-Context)</td>
<td>D 3 L5 KWIC</td>
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<tr>
<td>OCC (2)</td>
<td>List of display fields containing hit terms and number of times they occur</td>
<td>D 1-10 OCC</td>
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</table>

(1) Custom display only.
(2) No online display fee for this format.
SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers or an L-number containing terms from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

<table>
<thead>
<tr>
<th>Field Name</th>
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<th>ANALYZE/ SELECT (1)</th>
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<tr>
<td>Issue (Revision) Date</td>
<td>RDAT</td>
<td>Y</td>
<td>Y</td>
</tr>
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</table>

(1) HIT may be used to restrict terms extracted to terms that match the search expression used to create the answer set, e.g., SEL HIT RN.
(2) Appends /FN to the terms created by SELECT.
(3) Appends /BI to the terms created by SELECT.
(4) Appends /CN to the terms created by SELECT.
(5) Appends /OHSN to the terms created by SELECT.

Full-Text Browsing

<table>
<thead>
<tr>
<th>User Request</th>
<th>Example</th>
<th>System Response</th>
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<tbody>
<tr>
<td>DISPLAY BROWSE</td>
<td>=&gt; DISPLAY BROWSE ENTER (L1) OR L#: ENTER (DIS), ANSWER NUMBERS, OR END:</td>
<td>NOVICE version</td>
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<tr>
<td>D BRO</td>
<td>=&gt; D BRO L1 : :1-3 :4 SUMMARY :SUMMARY :&quot;KWIC</td>
<td>EXPERT version</td>
</tr>
</tbody>
</table>
|                       | :F3 :B1 :S CARCINOGEN :S- FIRST AID :END | display answers 1, 2, and 3 in default format display answer 4 in SUMMARY format display the SUMMARY information for the last answer displayed change default to KWIC; no answer displayed move forward 3 fields move backward 1 field search forward within record for 'carcinogen' search backward within record for 'first aid'
|                       | =>                                   | exit DISPLAY BROWSE and return to => prompt |
SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Material Name:
WOOD CREOSOTE

ChemADVISOR, Inc.
Stone Quarry Crossing
811 Camp Horne Road
Suite 220
Pittsburgh
PA 15237

E-mail: info@chemadvisor.com

MSDS is for reference use only; please contact manufacturer for emergency response information, routine product inquiries and orders.

Synonyms
CREASOTE; CREOSOTE, WOOD; RTECS: GO5870000

SECTION 2 HAZARDS IDENTIFICATION

Emergency Overview
Color: colorless to brown
Change in color: Not available
Physical Form: Not available
Odor: irritating odor
Health Hazards: skin burns, eye burns, respiratory tract irritation
Physical Hazards: Combustible liquid and vapor.

Potential Health Effects
Inhalation
Short Term: irritation (possibly severe), nausea, headache, dizziness
Long Term: vomiting

Skin Contact
Short Term: burns, rash, itching, low body temperature, nausea, vomiting, difficulty breathing, headache, dizziness, bluish skin color, convulsions
Long Term: no information on significant adverse effects

Eye Contact
Short Term: burns, pin-point pupils
Long Term: same as effects reported in short term exposure

Ingestion
Short Term: low body temperature, nausea, vomiting, difficulty breathing, headache, dizziness, bluish skin color, convulsions
Long Term: no information on significant adverse effects

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CAS: 8021-39-4
COMPONENT: WOOD CREOSOTE
EC NUMBER: 232-419-1
Percent: 100.0
Symbol(s): Xn C Xi
Risk Phrase(s): R:22-34-37

SECTION 4 FIRST AID MEASURES

Inhalation
If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin
Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse. Destroy contaminated shoes.

Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion
Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately.

Note to Physicians
For ingestion, consider gastric lavage and activated charcoal slurry.

SECTION 5 FIRE FIGHTING MEASURES

See Section 9 for Flammability Properties

NFPA Ratings:
Health: 3 Fire: 2 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties
Moderate fire hazard.

Extinguishing Media
regular dry chemical, carbon dioxide, water, regular foam Large fires: Use regular foam or flood with fine water spray.

Fire Fighting Measures
Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck:
Evacuation radius: 800 meters (1/2 mile). Do not attempt to extinguish fire unless flow of material can be stopped first. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Water Release
Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.
Occupational spill/release
Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

SECTION 7  HANDLING AND STORAGE
Storage Procedures

SECTION 8  EXPOSURE CONTROLS / PERSONAL PROTECTION
Component Exposure Limits: ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components.

Component Analysis
Biological limit value There are no biological limit values for any of this product's components.

Ventilation
Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT
Eyes/Face Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Protective Clothing
Wear appropriate chemical resistant clothing.

Glove Recommendations
Wear appropriate chemical resistant gloves.

Respiratory Protection
Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any chemical cartridge respirator with organic vapor cartridge(s). Any chemical cartridge respirator with a full facepiece and organic vapor cartridge(s). Any air-purifying respirator with a full facepiece and an organic vapor canister. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Not available.
Physical State: Liquid.
Odor: Irritating odor.
Color: Colorless to brown.
Odor Threshold: Not available.
pH: Not available.

Melting Point: Not available.
Boiling Point: 195 - 400 °C.

Freezing point: Not available.
Evaporation Rate: Not available.

Boiling Point Range: Not available.
Flammability (solid, gas): Not available.

Autoignition: 336 °C.
Flash Point: 73 °C.

Lower Explosive Limit: Not available.
Decomposition: Not available.

Upper Explosive Limit: Not available.
Vapor Pressure: Not available.

Vapor Density (air=1): Not available.
Specific Gravity (water=1): >1.076

Water Solubility: (slightly soluble)
Partition coefficient: n-octanol/water: Not available.

Viscosity: Not available.
Solubility (Other): Not available.

Density: Not available.
Taste: burning taste.

Texture: oily.
OSHA Flammability Class: IIIA.

Solvent Solubility
Soluble
glycerol, acetic acid, fixed alkali hydroxide solutions, alcohol, chloroform, ether, oils

SECTION 10  STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperatures and pressure.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers.

Incompatible Materials
combustible materials, acids, metal salts, oxidizing materials,

WOOD CREOSOTE: ACACIA: Incompatible. ALBUMIN: Incompatible. CHLOROSULFONIC ACID: Increase in temperature and pressure when mixed in closed container.

Hazardous Decomposition Products
oxides of carbon

Thermal decomposition products: oxides of carbon.

Possibility of Hazardous Reactions
Will not polymerize.

SECTION 11  TOXICOLOGICAL INFORMATION
Component Analysis - LD50/LC50 The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected) The components of this material have been reviewed, and RTECS publishes the following endpoints:

Oral: 433 mg/kg Oral Mouse LD50.

Acute Toxicity Level: WOOD CREOSOTE (8021-39-4)
Toxic: ingestion

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

RTECS Irritation: The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Local Effects: WOOD CREOSOTE (8021-39-4)
Irritant: inhalation

Corrosive: skin, eye

Inhalation - Acute Exposure
WOOD CREOSOTE: May cause moderate respiratory tract irritation. In one study of workers who developed creosote burns, a small percent also complained of depression, weakness, severe headache, slight confusion, vertigo, salivation, and nausea. It is unclear whether the route of exposure was skin contact or inhalation or both.

Inhalation - Chronic Exposure
WOOD CREOSOTE: A study of workers spraying warmed creosote with concentrations up to 0.01 mg/L reported headaches, giddiness, nausea, vomiting, and salivation.

Skin Contact - Acute Exposure
WOOD CREOSOTE: The liquid and vapors are strong irritants and may cause burning, itching, local erythema progressing to a bronze pigmentation, papular and vesicular eruptions, ulceration, and desquamation. Photosensitization occurs, especially in fair-skinned persons. Prolonged contact may cause burns. It is readily absorbed through the skin and may cause systemic illness with salivation, nausea, vomiting, headache, thready pulse, respiratory distress, loss of pupillary reflexes, hypothermia, mild convulsions, and cyanosis. Depression, weakness, slight confusion, nausea, and vertigo were also reported from one study in which it was not clear whether the route of exposure was inhalation or skin contact or both.

Skin Contact - Chronic Exposure
WOOD CREOSOTE: Repeated or prolonged exposure may cause darkening of the skin and dermatitis. If sufficient amounts are absorbed, systemic symptoms as with acute exposure may occur.

Eye Contact - Acute Exposure
WOOD CREOSOTE: Liquid contact has caused painful protracted keratoconjunctivitis involving loss of corneal epithelium, clouding of the cornea, miosis, and long-lasting irritability and photophobia. Other symptoms which have been reported from exposure to creosote-treated particles include abrasion of the cornea with some permanent scarring, hyperemia, and pronounced serous secretion.

Eye Contact - Chronic Exposure
WOOD CREOSOTE: Repeated or prolonged exposure may cause conjunctivitis.

Ingestion - Acute Exposure
WOOD CREOSOTE: Has caused intense irritation and congestion of the entire gastroenteric tract. Salivation, nausea, vomiting, respiratory distress, thready
pulse, vertigo, headache, loss of pupillary reflexes, hypothermia, cyanosis and mild convulsions may also occur. Death from large doses appears largely due to cardiovascular collapse.

Ingestion - Chronic Exposure
WOOD CREOSOTE: Repeated ingestion of small doses may result in chronic intoxication characterized by disturbances of vision and digestion including increased peristalsis and bloody stools. In one case, hypertension and general cardiovascular collapse were reported. Other symptoms of acute exposure are also possible. Maternal reproductive effects have been reported in mice following repeated exposures prior to mating. Paternal reproductive effects have been reported in mice and rats following repeated exposures prior to mating.

SECTION 12  ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity: No LOLI ecotoxicity data are available for this product's components.

SECTION 13  DISPOSAL CONSIDERATIONS

Disposal Methods
Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): U051. Dispose in accordance with all applicable regulations.

Component Waste Numbers: The U.S. EPA has not published waste numbers for this product's components.

SECTION 14  TRANSPORT INFORMATION

US DOT Information:
Shipping Name: CORROSIVE LIQUIDS, N.O.S., (Contains: WOOD CREOSOTE)

Hazard Class: 8
UN/NA #: UN1760
Packing Group: I
Required Label(s): 8
TDG Information: No Classification assigned.

ADR Information:
Shipping Name: CORROSIVE LIQUID, N.O.S.

Hazard Class: 8
UN#: UN1760
Packing Group: I
Required Label(s): 8

RID Information:
Shipping Name: CORROSIVE LIQUID, N.O.S.

Hazard Class: 8
UN#: UN1760
Packing Group: I
IATA Information:
Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN#: UN1760
Packing Group: I
Required Label(s): 8

ICAO Information:
Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN#: UN1760
Packing Group: I
Required Label(s): 8

IMDG Information:
Shipping Name: CORROSIVE LIQUID, N.O.S.
Hazard Class: 8
UN#: UN1760
Packing Group: I
Required Label(s): 8

Component Marine Pollutants (IMDG) Not regulated as dangerous goods.

SECTION 15  REGULATORY INFORMATION

US Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes
Chronic Health: No
Fire: Yes
Pressure: No
Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component: WOOD CREOSOTE
CAS: 8021-39-4
CA: No
MA: Yes
MN: No

December 2014
Not listed under California Proposition 65

REACH List of Substances Subject to Restriction (Annex XVII) - Reg. (EU) No. 1907/2006 This list includes substances subject to Restriction. Under REACH, these substances are subject to restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
WOOD CREOSOTE (8021-39-4)
Use restricted. See item 31[h]. (Notice 2009/C 130/03 Netherlands)

Symbol(s)
Xn Harmful
C Corrosive
Xi Irritant
Risk Phrases
R22 Harmful if swallowed.
R34 Causes burns.
R37 Irritating to respiratory system.
Safety Phrases
S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.
S20 When using do not eat or drink.
S24 Avoid contact with skin.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.
S39 Wear eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.

Component Analysis - Inventory

Component: WOOD CREOSOTE
CAS#: 8021-39-4
US: Yes
CA: DSL
EU: EIN
AU: Yes
PH: No
JP: No
KR: Yes
CN: Yes
NZ: Yes

Globally Harmonized System of Classification and Labeling (GHS)

The listed component(s) of this material have been checked for country-specific published classifications according to the Globally Harmonized System of Classification and Labeling (GHS). The results of the queries are displayed below. Please see the individual country listings, as additional interpretations or reference information may be available. For a reference list of H- or P-statements, please visit ChemADVISOR's website at http://www.chemadvisor.com/product-resources/26-pure-substance-and-mixture-databases/247-
ghs-hazard-and-physical-statements

Australia GHS Classifications: No published information available This material may be hazardous according to published criteria for classification
European Union GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

Indonesia GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

Japan GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

Korea GHS Classifications (SV) No published information available This material may be hazardous according to published criteria for classification.

New Zealand GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

South Africa GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

Taiwan GHS Classifications: No published information available This material may be hazardous according to published criteria for classification.

Classification
No classification assigned.

SECTION 16 OTHER INFORMATION

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOJI - List Of Lists® - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Full text of R phrases in Section 3:

R22: Harmful if swallowed.

R34: Causes burns.

R37: Irritating to respiratory system.

Other Information
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