Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
CCW-702 LV

Chemical Family
Adhesive

Product Use
Low VOC Adhesive

Restrictions on Use
For industrial use only.

Manufacturer Information

Carlisle Coatings and Waterproofing, Inc
900 Hensley Lane
Wylie, TX 75098
www.carlisleccw.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Acute Toxicity - Inhalation - Vapor - Category 4
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system)
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (blood)

GHS Label Elements

Symbol(s)

Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
Causes damage to organs
May cause respiratory irritation. May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Do not eat, drink or smoke when using this product

Response
In case of fire: Use appropriate media to extinguish
If exposed: Call a POISON CENTER or doctor/physician
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF SWALLOWED: Immediately call a POISON CENTER/doctor
Do NOT induce vomiting
Specific treatment (see label)

Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Statement of Unknown Toxicity
47.1415% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards
No additional information available.
Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>7-13</td>
</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>7-13</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Petroleum hydrocarbon resin</td>
<td>10-30</td>
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<tr>
<td>Mixture</td>
<td>Phthalo blue</td>
<td>0.1-1</td>
</tr>
<tr>
<td>4477-79-6</td>
<td>C.I. Solvent Red 26</td>
<td>0.1-1</td>
</tr>
<tr>
<td>540-88-5</td>
<td>tert-Butyl acetate</td>
<td>15-40</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Description of Necessary Measures
If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation
Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin
Remove contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention.

Eyes
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects
Acute
May be fatal if swallowed and enters airways. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Causes damage to central nervous system. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed
Causes damage to organs through prolonged or repeated exposure: central nervous system, blood.
Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Dry chemical, foam or carbon dioxide. Water may be ineffective.

Unsuitable Extinguishing Media
Do not use high-pressure water streams.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Hazardous Combustion Products
Oxides of carbon, hydrocarbons. Fumes may be irritating.

Advice for firefighters
Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

Fire Fighting Measures
Cool containers with water spray until well after the fire is out. Avoid inhalation of material or combustion by-products.

Special Protective Equipment and Precautions for Firefighters
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Keep container tightly closed. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Take precautionary measures against static discharge. Use non-sparking tools. Use only outdoors or in a well-
Safety Data Sheet

Material Name: CCW-702 LV

ventilated area. Avoid contact with eyes, skin and clothing. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up
Keep away from heat and ignition sources. Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

Incompatible Materials
Strong acids, strong oxidizing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>Europe</th>
<th>OSHA (US)</th>
<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>20 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m3 TWA</td>
<td>50 ppm TWA; 192 mg/m3 TWA</td>
<td>200 ppm TWA</td>
<td>50 ppm TWA LMPE-PPT; 188 mg/m3 TWA LMPE-PPT</td>
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<tr>
<td></td>
<td></td>
<td>500 ppm IDLH</td>
<td>150 ppm STEL; 560 mg/m3 STEL</td>
<td>100 ppm STEL; 384 mg/m3 STEL</td>
<td>300 ppm Ceiling</td>
<td>Skin - potential for cutaneous absorption</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>250 ppm TWA</td>
<td>250 ppm TWA; 590 mg/m3 TWA</td>
<td>500 ppm TWA; 1210 mg/m3 TWA</td>
<td>1000 ppm TWA; 2400 mg/m3 TWA</td>
<td>1000 ppm TWA LMPE-PPT; 2400 mg/m3 TWA LMPE-PPT</td>
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<tr>
<td></td>
<td></td>
<td>500 ppm STEL</td>
<td>2500 ppm IDLH (10% LEL)</td>
<td>1260 ppm STEL [LMPE-CT]; 3000 mg/m3 STEL [LMPE-CT]</td>
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</table>

Page 5 of 14
Temperature:

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

**Engineering Controls**
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**
Wear chemical safety goggles with a faceshield to protect against skin and eye contact when appropriate.

**Skin Protection**
Wear work clothes with long sleeves. Wear protective shoes. Recommended material: protective skin cream.

**Respiratory Protection**
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Glove Recommendations**
Wear appropriate chemical resistant gloves.

**Protective Materials**
Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

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**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Physical State</th>
<th>pH</th>
<th>Melting Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>thick dark red liquid</td>
<td>liquid</td>
<td></td>
<td>-95 °C (-139 °F)</td>
</tr>
<tr>
<td>Odor</td>
<td></td>
<td>Color</td>
<td>Boiling Point</td>
</tr>
<tr>
<td>sweet,solvent</td>
<td>dark red</td>
<td>Not available</td>
<td>56 - 110 °C (133-231 °F)</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Melting Point</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Reactivity
No reactivity hazard is expected.

Chemical Stability
Stable under normal conditions of use.

Possibility of Hazardous Reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials
Strong acids, strong oxidizing agents

Hazardous decomposition products
Oxides of carbon, hydrocarbons. Fumes may be irritating.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure
Inhalation
Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness.
Skin Contact
Causes skin irritation.

Eye Contact
Causes serious eye irritation.

Ingestion
May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Toluene (108-88-3)
- Oral LD50 Rat >7000 mg/kg
- Dermal LD50 Rabbit 12 - 14 g/kg
- Inhalation LC50 Rat 30 - 35 mg/L

Acetone (67-64-1)
- Oral LD50 Rat 5800 mg/kg
- Dermal LD50 Guinea pig >7246 mg/kg
- Inhalation LC50 Rat 32000 ppm 4 h

Coumarone-indene resin (63393-89-5)
- Oral LD50 Rat >16000 mg/kg

Phthalo blue (Mixture)
- Oral LD50 Rat 8532 mg/kg
- Dermal LD50 Rabbit >5 g/kg

tert-Butyl acetate (540-88-5)
- Oral LD50 4500 mg/kg
- Dermal LD50 >2000 mg/kg
- Inhalation LC50 Rat 12.52 mg/L 4 h

Immediate Effects
Harmful if inhaled. May be fatal if swallowed and enters airways. Cause skin irritation. Causes serious eye irritation. Causes damage to central nervous system. May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed Effects
Causes damage to organs through prolonged or repeated exposure: central nervous system, blood.

Irritation/Corrosivity Data
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
No data available.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
</tbody>
</table>
IARC:
Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Acetone
67-64-1

ACGIH:
A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity
No data available.

Tumorigenic Data
No data available

Reproductive Toxicity
No data available.

Specific Target Organ Toxicity - Single Exposure
central nervous system

Specific Target Organ Toxicity - Repeated Exposure
blood, central nervous system

Aspiration hazard
May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure
Aspiration into the lungs may cause chemical pneumonitis.

Additional Data
No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Toluene</th>
<th>108-88-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]</td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 96 h Pseudokirchneriella subcapitata &gt;433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA</td>
</tr>
</tbody>
</table>
Invertebrate: EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID

Acetone 67-64-1

Fish: LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L

Invertebrate: EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID

Phthalo blue Mixture

Fish: LC50 96 h Pimephales promelas 161 mg/L [static]

Invertebrate: EC50 48 h Daphnia magna >500 mg/L IUCLID

tert-Butyl acetate 540-88-5

Fish: LC50 96 h Pimephales promelas 296 - 362 mg/L [flow-through]; LC50 96 hr Oncorhynchus mykiss 240 mg/L

Invertebrate: EC50 48 hr Daphnia magna 350 mg/L

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
No information available for the product.

Mobility
No information available for the product.

Other Toxicity
No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: Adhesives
Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
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<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
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<tr>
<td>SARA 313:</td>
<td>1 % de minimis concentration</td>
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<tr>
<td>CERCLA:</td>
<td>1000 lb final RQ; 454 kg final RQ</td>
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<tr>
<td>Acetone</td>
<td>67-64-1</td>
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<tr>
<td>CERCLA:</td>
<td>5000 lb final RQ; 2270 kg final RQ</td>
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<tr>
<td>tert-Butyl acetate</td>
<td>540-88-5</td>
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<td>CERCLA:</td>
<td>5000 lb final RQ; 2270 kg final RQ</td>
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</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
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<tr>
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<tr>
<td>tert-Butyl acetate</td>
<td>540-88-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>
The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Repro/Dev. Tox</th>
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</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Developmental toxicity, 1/1/1991</td>
</tr>
</tbody>
</table>

**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

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<tbody>
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<td>EIN</td>
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<td>Yes</td>
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<tbody>
<tr>
<td>Acetone</td>
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<td>DSL</td>
<td>EIN</td>
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</thead>
<tbody>
<tr>
<td>Styrene/isoprene copolymer (25038-32-8)</td>
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<td>DSL</td>
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<td>Yes</td>
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<td>Coumarone-indene resin (63393-89-5)</td>
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<td>DSL</td>
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Phthalo blue (Mixture)

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<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
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C.I. Solvent Red 26 (4477-79-6)

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<tr>
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tert-Butyl acetate (540-88-5)

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Section 16 - OTHER INFORMATION

**HMIS Rating**

Health: 2* Fire: 3 Reactivity: 0  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

**NFPA Ratings**

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

**Summary of Changes**

New SDS: May 27, 2015

**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; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products  
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -  
Dangerous Substance Directive; 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; LLV - Level Limit Value; LOLI - List Of LIstsTM  
- ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace;  
MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute
Other Information

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