

**Section 1: Identification**

1.1 Product identification

Product identifier : Mixture  
 Product name : GLAMAGE Hair Manicure 81  
 Product code : Not available  
 Recommended uses : Cosmetics - Hair Coloring Product  
 Restrictions on uses : No information available

1.2 Identification of company

Manufacturer/Supplier name : Hoyu America Co.  
 Division :  
 Address : 6265 Phyllis Drive Cypress, CA 90630 US  
 Telephone number : 714-230-3000  
 FAX number : 714-230-3060  
 E-mail : info@hoyu-usa.com

1.3 Emergency telephone number : 1-800-848-4980

1.4 Reference number : 22-0060 (US)

**Section 2: Hazard Identification**

2.1 Classification of the substance or mixture

2.1.1 Physico-Chemical hazard

Flammable Liquids : Category 3

2.1.2 Health Hazard

Acute toxicity (Oral) : Not classified  
 Acute toxicity (Dermal) : Not classified  
 Acute toxicity (inhalation: vapors) : Not classified  
 Skin corrosion/irritation : Category 2  
 Serious eye damage/irritation : Category 2  
 Skin sensitization : Not classified  
 Carcinogenicity : Category 1A  
 Reproductive toxicity : Category 1A  
 Aspiration hazard : Not classified  
 Specific target organ toxicity (single exposure) : Category 1  
 Specific target organ toxicity (repeated exposure) : Category 1

2.1.3 Environmental Hazard

Acute environmental toxicity : Not classified

\* For those not listed on “2.1 Classification of the Substance or Mixture” are either “Not Applicable” or “Classification not Possible.”

\* Hazard identification is made according to the 2012 OSHA communication Standard (29 CFR 1910.1210) and GHS rev. 7.

2.2 Label Element

Hazard Pictograms :



Signal Word : Danger

Hazard Statement : H226 Flammable liquid and vapor  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H350 May cause cancer.  
 H360 May damage fertility or unborn child.  
 H370 Causes damage to organs Kidney, Central Nervous System.

		H372	Causes damage to organs Liver, Central Nervous System, through prolonged or repeated exposure.
Precautionary Statement			
General Precautions	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
Preventions	:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P233	Keep container tightly closed.
		P240	Ground and bond container and receiving equipment.
		P241	Use explosion-proof electrical/ventilating/lighting equipment.
		P242	Use non-sparking tools.
		P243	Take action to prevent static discharges.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P264	Wash face, hands and any exposed skin thoroughly after handling.
		P203	Obtain, read and follow all safety instructions before use.
		P260	Do not breathe dust/fume/gas/mist/vapors/spray.
		P270	Do not eat, drink or smoke when using this product.
		P271	Use only outdoors or in a well-ventilated area.
Responses	:	P303+P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		P370+P378	In case of fire: Use water to extinguish.
		P302+P352	IF ON SKIN: Wash with plenty of water.
		P321	Specific treatment (see section 4 on this SDS).
		P332+P317	If skin irritation occurs: Get medical help.
		P362+P364	Take off contaminated clothing and wash it before reuse.
		P305+P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337+P317	If eye irritation persists: Get medical help.
		P318	IF exposed or concerned, get medical advice.
		P308+P316	IF exposed or concerned: Get emergency medical help immediately.
		P319	Get medical help if you feel unwell.
		P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage	:	P403+P235	Store in a well-ventilated place. Keep cool.
		P405	Store locked up.
		P403+P233	Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501	Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national/international regulations.

### 2.3 Other hazards

4.61% of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

Harmful to aquatic life with long lasting effects.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Use of alcoholic beverages may enhance toxic effects.

### Section 3: Composition/Information on Ingredients

#### 3.1 Substance :

Chemical Name	CAS No.	Concentration (w/w %)
Not applicable	Not applicable	Not applicable

#### 3.2 Mixtures :

Chemical Name	CAS No.	Concentration (w/w %)
ALCOHOL DENAT.	64-17-5	10 - 20
BENZYL ALCOHOL	100-51-6	10 - 20
LACTIC ACID	79-33-4 79-33-4	1 - 5
ISOHEXADECANE	4390-04-9	1 - 5
CARBOMER	9003-01-4	1 - 5

### Section 4 : First-aid Measures

#### 4.1 Description of First Aid Measures

- Inhalation : Remove to fresh air. Get medical attention immediately if symptoms occur.
- Skin Contact : Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
- Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
- Ingestion : Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Call a physician.

#### 4.2 Most Important Symptoms/Effects

- Acute : Burning sensation, itching, rashes, and/or hives.
- Delayed : Burning sensation, itching, rashes, and/or hives.

#### 4.3 Protection for Person who gives First-Aids

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

#### 4.4 Indication of Immediate Medical Attention and Special Treatment Needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. May cause sensitization of susceptible persons. Treat symptomatically.

### Section 5: Fire-Fighting Measures

#### 5.1 Extinguishing Media

Suitable Extinguishing Media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Inappropriate Extinguish Media : No information available.

5.2 Specific Hazards Arising from the Chemicals : Flammable. Vapors may accumulate in confined areas (basement, etc.). Vapors may travel to source of ignition and flash back. Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Special Extinguishing Method : Sensitivity to mechanical impact: No  
Sensitivity to static discharge: Yes

5.4 Special Protective Actions for Fire-fighter : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

- 6.1 Personal Precautions, Protective Equipment and Emergency Procedures
  - Protective Equipment : Refer to protective measures listed in Section 7 and 8. Prevent further leakage or spillage if safe to do so.
  - Appropriate Procedure : Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.
  - Emergency Procedure : Evacuate personnel to safe areas.
- 6.2 Environmental Precautions : Refer to protective measures listed in Section 7 and 8. Prevent further leakage or spillage if safe to do so.
- 6.3 Methods and Materials for Containment and Cleaning up
  - For Containment : Prevent further leakage or spillage if safe to do so.
  - For Cleaning up : Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
  - Other Information : Not available

**Section 7: Handling and Storage**

- 7.1 Precautions for Safe Handling
  - General Precautions : Use personal protection equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.
  - General Hygiene : Do not eat, drink or smoke when using this product.
- 7.2 Conditions for Safe Storage
  - General Information : Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
  - Storage Conditions : Do not store with reductant or oxidizing agents and/or strong bases.
  - Other Information : Not available

**Section 8: Exposure Controls/Personal Protection**

8.1 Occupational Exposure Limits :

Chemical Name	ACGIH TLV	NIOSH IDLH	NIOSH REL	OSHA PEL
ALCOHOL DENAT.	ST: 1000 ppm	3300 ppm [10%LEL]	TWA: 1000 ppm (1900 mg/m <sup>3</sup> )	TWA: 1000 ppm (1900 mg/m <sup>3</sup> )

ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold limit value.  
 OSHA PEL: Occupational safety and Health Administration – Permissible Exposure Limits Immediately Dangerous to Life or Health.  
 NIOSH IDLH: The National Institute for Occupational Safety and Health – Immediately Dangerous to Life or Health Concentrations.

- 8.2 Engineering Controls : Showers  
 Eyewash station  
 Ventilation system
- 8.3 Individual Protection Measures
  - Eye/Face Protection : Tight sealing safety goggles.
  - Skin Protection : Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.
  - Respiratory Protection : No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
  - Thermal Hazard : Not available
  - Other Requirements : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when

using this product. Wash hands before breaks and immediately after handling the products.

### Section 9: Physical and Chemical Properties

Physical State	:	Liquid	
Color	:	Dark orange brown	
Odor	:	Fragrant odor	
pH	:	2.5 - 3.5	pH meter (10% aq.sol.)
Melting/Freezing Point	:	No data available	Not known
Initial Boiling Point and Boiling Range	:	No data available	Not known
Flash Point	:	41.5 °C	Tag closed cup flash point test
Evaporation Rate	:	No data available	Not known
Flammability (Solid, Gas)	:	No data available	Not known
Upper/lower Flammability or Explosive Limits	:	No data available	Not known
Vapor Pressure	:	No data available	Not known
Density	:	No data available	Not known
Relative Vapor Density	:	No data available	Not known
Solubility	:	Completely soluble in water	Not known
Partition Coefficient: n-octanol/water	:	No data available	Not known
Autoignition temperature	:	No data available	Not known
Decomposition temperature	:	No data available	Not known
Viscosity	:	30000 - 50000 mPa·s	Type BL viscometer (No. 4 rotor/12 rpm/1 min)
Kinetic viscosity	:	No data available	Not known
Particle characteristics	:	No data available	Not known
Explosive property	:	No data available	Not known
Oxidizing property	:	No	
VOC contents (%)	:	No data available	
Other Information	:	No information available	

### Section 10: Stability and Reactivity

Reactivity	:	No data available
Chemical Stability	:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	:	None under normal processing.
Conditions to Avoid	:	None known
Incompatible Materials	:	Metals such as iron, copper, brass and aluminum, etc. Reductant agents, oxidizing agents, strong alkalis and acids.
Hazardous Decomposition Products	:	None

### Section 11: Toxicological Information

Information on Toxicological Effects		
Acute Toxicity	:	
BENZYL ALCOHOL	:	LD50(oral, rat) = 1200 mg/kg LD50(dermal, rabbit) = 2000 mg/kg
Skin Corrosion/Irritation	:	
LACTIC ACID	:	LACTIC ACID showed severe irritation and skin corrosiveness in the rabbit skin irritation test (OECD TG 404) (SIAP (2011)).
Serious Eye Damage/Irritation	:	
ALCOHOL DENAT.	:	Two Draize tests on rabbit (OECD TG 405) showed moderate irritation (SIDS, 2005). One out of two tests showed cornea opacity, iris inflammation, conjunctival redness, and chemosis, but recovered within 7 days (ECETOC TR, 48 (2), 1998).

BENZYL ALCOHOL	:	In OECD TG 405-compliant eye irritation test on rabbits, it was reported as moderately irritating (SIDS (2004)).
LACTIC ACID	:	In a rabbit eye irritation test of lactic acid, persistent scarring, disappearance of the corneal surface layer, adhesion between the cornea and the iris were observed (HSDB (Access on September 2016)).
Respiratory or Skin Sensitization	:	
BENZYL ALCOHOL	:	Japan Society for Occupational Health classifies BENZYL ALCOHOL as a skin sensitizer group 2. (Provisional Recommendation for sensitizers (JSOC (2019)). In patch tests on 5,202 patients with suspected contact dermatitis, 48 (0.9%) of all patients and 2(1.3%) of 156 who had only allergic reactions to cosmetics were sensitized to this substance. (Provisional Recommendation for Sensitizers(JSOC(2019))
Germ Cell Mutagenicity	:	No information available
Carcinogenicity	:	
ALCOHOL DENAT.	:	ACGIH classifies ethanol as A3 (ACGIH 7th, 2012). Also, IARC concluded there was sufficient evidence excess intake of alcohol beverage elicited cancer on throat (2010).
Reproductive Toxicity	:	
ALCOHOL DENAT.	:	When pregnant intake ethanol before birth, it is known newborn develops congenital anomaly called fetal alcohol syndrome, including microcephalia, short palbebral fissure, abnormality on joint, extremity, and heart and behavioral and cognitive dysfunction during formative period (PATTY 6th, 2012).
STOT – Single Exposure	:	
ALCOHOL DENAT.	:	Inhalation exposure on human showed irritation on eye and respiratory tract (PATTY 6th, 2012). With the increase in concentration of ethanol in blood, it will cause mild to severe abuse like changes in behavior, vomit, and low body temperature (PATTY 6th, 2012).
BENZYL ALCOHOL	:	A 45-year-old male who inhaled a coating remover containing 34.8% of this substance became unconscious and was rushed to the hospital in a coma. Acute benzyl alcohol poisoning was diagnosed with hypotension, progressive metabolic acidosis, and polyuria due to renal tubular disease. (Ito et al., Japanese Journal of Emergency Medicine. vol. 29, p.254 (2018)). This substance has been applied to the skin or used for local anesthesia by subcutaneous injection of a 1% solution (Ministry of the Environment Risk Assessment Vol. 11 (2013). In a single oral dose study in rats, depression, excitement, and coma were observed. (SIDS (2004)).
STOT – Repeated Exposure	:	
ALCOHOL DENAT.	:	Large consumption of alcohol for a long period on human impact liver (DFGOT vol. 12, 1999). For treating alcohol abuse, US FDA approves 3 kinds of drugs (HSDB, 2013).
BENZYL ALCOHOL	:	This substance was used as a preservative in cleaning solution for intravascular catheter and caused nervous system disruption and fatality in underweight newborn child (PATTY (6th, 2012)) Intravenous administration of a liquid containing 0.9% of this substance caused poisoning symptoms (gasping breath,

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acidosis, decreased nerve function, etc.) in underweight newborn child (PATTY (6th, 2012)).

- Aspiration Hazard :  
 ISOHEXADECANE : No specific information given on the SDS from manufacturer.
- Information on the Likely Routes of Exposure
- Inhalation : Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
- Eye contact : Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Severely irritating to eyes. Cause serious eye damage. May cause burns. May cause irreversible damage to eyes.
- Skin contact : Specific test data for the substance or mixture is not available. Ingestion may cause irritation based on components. Irritating to skin. Prolonged contact may cause redness and irritation.
- Ingestion : Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed (based on components).
- Symptoms related to the Physical, Chemical and Toxicological Characteristics : Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning, itching, rushes and/or hives.
- Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure : May cause sensitization of susceptible persons. May cause sensitization by skin contact.
- Carcinogenicity : The table below indicates whether each agency has listed any ingredient as carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ALCOHOL DENAT.	A3	-	-	-
CARBOMER	-	Group 3	-	-

ACGIH: A1 – Confirmed human carcinogen, A2 – Suspected human carcinogen, A3 – Confirmed animal carcinogen with unknown relevance to humans, A4 – Not classifiable as a human carcinogen, A5 – Not suspected as a human carcinogen

IARC: International Agency for Research and Cancer (Group 1 – Carcinogenic to humans, Group 2A – Probably Carcinogenic to humans, Group 2B – Possibly carcinogenic to humans, Group 3 – Not classifiable as to carcinogenicity in humans, Group 4 – Probably not carcinogenic to humans)

NTP: National Toxicology Program (NA = none assigned, Known = Known to be a human carcinogen, RAHC = Reasonably anticipated to be a human carcinogen)

Other Information : No information available.

## Section 12: Ecological Information

- Toxicity on Aquatic Organisms :  
 BENZYL ALCOHOL : LC50 (Lepomis macrochirus, 96 hrs.) = 10mg/L
- Toxicity on Terrestrial Organisms : No information available.
- Persistence and Degradability : No information available.
- Bioaccumulative Potential : No information available.
- Mobility in Soil : No information available.
- Other Adverse Effects : No information available.

## Section 13: Disposal Considerations

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- Product/Packaging Disposal : This material, as supplied, is not a hazardous waste according to Federal regulation (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
- Waste Treatment-Relevant Information : No information available.
- Sewage Disposal-Relevant Information : No information available.
- Other Disposal Recommendation : Dispose of contents/containers in accordance with local regulation (refer to Section 15).

### Section 14: Transport Information

	DOT/TDG	IATA/ICAO	IMDG/IMO
UN Number	Not regulated	Not regulated	Not regulated
UN Proper Shipping Name			
Transport Hazard Classes			
Packing Group			

This product is regarded as non-flammable liquid for transport regulatory purposes because the negative result has been obtained in the sustained combustibility test performed according to L.2 of Party III, section 32 of the Manual of Tests and Criteria, GHS.

DOT: US Department of Transportation

TDG: UN model regulation of Transport of Dangerous Goods

IATA/ICAO: International Air Transport Association/International Civil Aviation Organization

IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organization

Environmental Hazards : No information available.

Special Precautions for User : No information available.

Transport in Bulk According to ANNEX : No information available.

II of MARPOL 73/78 and IBC Code

### Section 15: Regulatory Information

Safety, Health, and Environmental Regulations Specific for the Product

International chemical inventories

Toxic substances control act (TSCA) : All components of this product are either listed or are exempt on the TSCA inventory.

Domestic Substance list (DSL) : Substances comply or are exempt.

US Federal Regulation

Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA 313) : Section 313 of Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA). This product does not contain chemical which is subject to the reporting requirements of the act and title 40 of the Code of Federal Regulations (CFR), Part 372.

Chemical Name	SARA 313 – Threshold values (%)
-	-

- SARA 311/312 Hazard Category : Acute health hazard No
- Chronic health hazard Yes
- Fire hazard No
- Sudden release of pressure hazard No
- Reactive hazard No

Clean Water Act (CWA) : This product does not contain substance which is regulated as pollutant pursuant to the Clean Water Act (40 CFR 122).

Clean Air Act (CAA) : This product does not contain substance which is regulated



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Comprehensive Environmental Response Compensation and Liability Act (CERCLA) : as pollutant pursuant to the Clean Air Act (40 CFR 50 - 99). This material, as supplied, does not contain substance regulated as hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (40 CFR 302).

Hazardous Substance	Statutory Code*	RCRA Waste No.	Final RQ Pounds
-	-	-	-

\* According to 40 CFR 302, The “Statutory Code” column indicates the statutory source for designating each substance as a CERCLA hazardous substance:

- “1” indicates that the statutory source is section 311(b)(2) of the Clean Water Act,
- “2” indicates that the source is section 307(a) of the Clean Water Act,
- “3” indicates that the source is section 112 of the Clean Air Act, and
- “4” indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA).

US State Regulations

California Hazardous Waste Code : 135 (unspecified aqueous solution)  
 This product contains one or more substances that are listed with the state of California as hazardous waste.

Chemical Name	California Hazardous Waste Code
ALCOHOL DENAT.	X, I

California Hazardous Waste Code: X – Toxic, C – Corrosive, I – Ignitable, R - reactive  
 California Proposition 65 : This product does not contain any Proposition 65 chemicals.  
 US State Right-to-Know Regulations :

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
ALCOHOL DENAT.	X	X	X	X	-
BENZYL ALCOHOL	-	-	X	-	-

**Section 16: Other Information**

NFPA (National Fire Protection Association Code) : Health hazard 2  
 Flammability hazard 2  
 Instability hazard 0  
 Special hazards -

HMIS (Hazardous Materials Identification System) : Health 2  
 Flammability 2  
 Physical hazard 0  
 Personal protection x

Reference :

1. Globally Harmonized System of Classification and Labeling of Chemicals Revision 5, 2013
2. National Institute of Technology and Evaluation (<http://www.nite.go.jp/en/index.html>)
3. SDS provided from raw material manufactures
4. United States Code (<http://uscode.house.gov/browse.xhtml>)
  - a) Title 21 Food and Drugs Chapter 9 Federal Food, Drug, and Cosmetic Act
  - b) Title 33 Navigation and Navigable Waters Chapter 26 Water Pollution Prevention and Control
  - c) Title 42 The Public Health and Welfare Chapter 85 Air Pollution Prevention and Control
  - d) Title 42 The Public Health and Welfare Chapter 103—Comprehensive Environmental Response, Compensation, and Liability
5. Code of Federal Regulation (<https://www.gpo.gov/>)
  - a) 21 CFR parts 700 – 799 Cosmetics
  - b) 40 CFR Protection of Environment
6. US Right-to-Know Regulation
  - a) New Jersey administrative code Title 8 Health Chapter 59 Work and community right to know act rules Appendix A and B
  - b) New Jersey Register Volume 42, Issue 15, 42 N.J.R. 1709(a), August 2, 2010
  - c) Code of Massachusetts Regulations 105 CMR 670.000 Right to know

- d) The Pennsylvania Code Title 34 Labor and Industry Chapter 323 Hazardous Substance List
- e) State of Rhode Island General Laws Chapter 28-21 Hazardous Substances Right-to-Know Act
- f) Rhode Island Hazardous Substance List  
(<http://www.dlt.ri.gov/occusafe/pdfs/HazardousABC.pdf>)
- g) Illinois Chemical Safety Act (430 ILCS 45)
- h) Hazardous Materials Emergency Act (430 ILCS 50)
- i) Illinois Emergency Planning and Community Right to Know Act (430 ILCS 100)
- 7. Domestic Substance List (<http://www.ec.gc.ca/LCPE-CEPA/default.asp?lang=En&n=5F213FA8-1>)
- 8. TSCA Chemical Substance Inventory (<https://www.epa.gov/tsca-inventory>)
- 9. International Agency for Research on Cancer (<http://www.iarc.fr/>)
- 10. American Conference of Governmental Industrial Hygienists (<http://www.acgih.org/>)
- 11. US Environmental Protection Agency (<https://www3.epa.gov/>)
- 12. US Department of Labor, Occupational Safety and Health Administration (<https://www.osha.gov/>)
- 13. The National Institute for Occupational Safety and Health  
(<http://www.cdc.gov/niosh/about/default.html>)
- 14. US Department of Health and Human Services, National Toxicology Program  
(<https://ntp.niehs.nih.gov/>)
- 15. US Department of Transportation (<https://www.transportation.gov/>)
- 16. International Air Transport Association (<http://www.iata.org/Pages/default.aspx>)
- 17. International Civil Aviation Organization (<http://www.icao.int/Pages/default.aspx>)
- 18. International Maritime Organization  
(<http://www.imo.org/en/Publications/IMDGCode/Pages/Default.aspx>)
- 19. California Environmental Protection Agency (<http://oehha.ca.gov/>)
- 20. National Fire Protection Association (<http://www.nfpa.org/>)

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