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#### **Section 1: Identification**

Ref. No.: 22-0063 (US)

1.1 Product identification

Product identifier : Mixture

Product name : GLAMAGE Hair Manicure 84

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 : 22-0063 (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 Not classified Acute toxicity (Dermal) 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 Not classified Aspiration hazard 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.

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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. Read label before use. P103 Keep away from heat, hot surfaces, sparks, open Preventions P210 flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting P241 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 P260 Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271 P303+P361+ IF ON SKIN (or hair): Take off immediately all Responses P353 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. Specific treatment (see section 4 on this SDS). P321 If skin irritation occurs: Get medical help. P332+P317 Take off contaminated clothing and wash it before P362+P364 P305+P351+ IF IN EYES: Rinse cautiously with water for several P338 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. P337+P317 P318 IF exposed or concerned, get medical advice. P308+P316 IF exposed or concerned: Get emergency medical help immediately. Get medical help if you feel unwell. P319 IF INHALED: Remove person to fresh air and keep P304+P340 comfortable for breathing. Store in a well-ventilated place. Keep cool. Storage P403+P235 Store locked up. P405 P403+P233 Store in a well-ventilated place. Keep container tightly closed. Disposal Dispose of contents/container to an approved waste P501 disposal plant in accordance with

#### 2.3 Other hazards

4.69% 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.

local/regional/national/international regulations.

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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.

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#### **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

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

**Section 9: Physical and Chemical Properties** 

Physical State : Liquid Color Black brown Odor Fragrant odor

2.5 - 3.5 рН 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 No data available Not known

Limits

Vapor Pressure No data available Not known Density : No data available Not known Relative Vapor Density No data available Not known Completely soluble in water Solubility 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 Type BL viscometer 30000 - 50000 mPa·s

(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 data available VOC contents (%)

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

: Metals such as iron, copper, brass and aluminum, etc. **Incompatible Materials** 

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/kgLD50(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).

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In OECD TG 405-compliant eye irritation test on rabbits, it

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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** 

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).

A 45-year-old male who inhaled a coating remover containing **BENZYL ALCOHOL** 

> 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).

This substance was used as a preservative in cleaning solution **BENZYL ALCOHOL** 

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.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

Ingestion

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

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regulations for additional requirements.

Waste Treatment-Relevant Information Sewage Disposal-Relevant Information Other Disposal Recommendation

No information available. No information available.

: 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			
UN Proper Shipping Name	Not regulated	Not magulated	Not regulated
Transport Hazard Classes	Not regulated	Not regulated	
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

: No information available. **Environmental Hazards** 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)

**US Federal Regulation** 

: Substances comply or are exempt.

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	s (CFR), Part 372.		
Chemical Name		SARA 313 – Threshold	values (%)	
-		-		
SARA 311/312 Hazard Category	: Acute healt	h hazard	No	
	Chronic he	alth hazard	Yes	
	Fire hazard		No	
	Sudden rele	ease of pressure hazard	No	
	Reactive ha	zard	No	
Clean Water Act (CWA)	: This produ	: This product does not contain substance which is regu		
	as pollutan	pursuant to the Clean Water	er Act (40 CFR 122).	
Clean Air Act (CAA)	: This produ	ct does not contain substance	ce 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).

	(10 111101)		
Hazardous Substance	Statutory Code*	RCRA Waste No.	Final RQ Pounds
-	-	-	-

<sup>\*</sup> According to 40 CFR 302, The "Statutory Code" column indicates the statutory source for designating each substance as a CERCLA hazardous substance:

## **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 :	Health hazard	2
Association Code)	Flammability hazard	2
	Instability hazard	0
	Special hazards	-
HMIS (Hazardous Materials :	Health	2
Identification System)	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

<sup>&</sup>quot;1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act,

<sup>&</sup>quot;2" indicates that the source is section 307(a) of the Clean Water Act,

<sup>&</sup>quot;3" indicates that the source is section 112 of the Clean Air Act, and

<sup>&</sup>quot;4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA).

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- 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/)

**Disclaimer:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.