

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 16/03/2011 Revision date: 20/11/2017 Supersedes: 16/03/2011 Version: 2.0

CLM-180

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Substance name : BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE

 EC Index No
 : 605-012-00-5 (Unlabeled)

 EC No
 : 202-860-4 (Unlabeled)

 CAS No
 : 100-52-7 (Unlabeled)

Product code : CLM-180
Formula : \*C6H5CHO

Synonyms : Artificial essential oil of almond

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Skin Irrit. 2 H315 Resp. Sens. 1 H334 Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R21/22 Xi; R38 R42 R43 N; R51/53

Full text of R-phrases: see section 16

### **GHS-US** classification

Flam. Liq. 4 H227 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Skin Irrit. 2 H315 Resp. Sens. 1 H334 Skin Sens. 1 H317

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Aquatic Acute 2 H401

Full text of H statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





Signal word (CLP) : Danger

Hazard statements (CLP) : H302+H312 - Harmful if swallowed or in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapors

P264 - Wash both hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear protective clothing, protective gloves

P284 - [In case of inadequate ventilation] wear respiratory protection

P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell

P302+P352 - IF ON SKIN: Wash with plenty of water

### **GHS-US** labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H227 - Combustible liquid

H302+H312 - Harmful if swallowed or in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H401 - Toxic to aquatic life

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash both hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P272 - Contaminated work clothing must not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective clothing, protective gloves

P284 - [In case of inadequate ventilation] wear respiratory protection P301+P312 - If swallowed: Call a poison center/doctor/... if you feel unwell

P302+P352 - If on skin: Wash with plenty of water/...

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a poison center/doctor if you feel unwell

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/...

P362 - Take off contaminated clothing and wash it before reuse P362+P364 - Take off contaminated clothing and wash it before reuse

P370+P378 - In case of fire: Use Alcohol resistant foam, Dry chemical to extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

P501 - Dispose of contents/container to comply with applicable regulations

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### 2.3. Other hazards

No additional information available

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

Name : BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE

 CAS No
 : 100-52-7 (Unlabeled)

 EC No
 : 202-860-4 (Unlabeled)

 EC Index No
 : 605-012-00-5 (Unlabeled)

Name	Product identifier	%	Classification according to Directive 67/548/EEC
BENZALDEHYDE (RING-13C6, 99%)	(CAS No) 100-52-7 (Unlabeled) (EC No) 202-860-4 (Unlabeled) (EC Index No) 605-012-00-5 (Unlabeled)	99.9	Xn; R21/22 Xi; R38 R42 R43 N; R51/53
HYDROQUINONE UNLABELED	(CAS No) 123-31-9 (EC No) 204-617-8 (EC Index No) 604-005-00-4	0.1	Muta.Cat.1; R46 T+; R26 T; R24/25 Xn; R22 Xi; R36 Xi; R37 Xi; R39 N; R50
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZALDEHYDE (RING-13C6, 99%)	(CAS No) 100-52-7 (Unlabeled) (EC No) 202-860-4 (Unlabeled) (EC Index No) 605-012-00-5 (Unlabeled)	99.9	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
HYDROQUINONE UNLABELED	(CAS No) 123-31-9 (EC No) 204-617-8	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist),

(EC Index No) 604-005-00-4

H330

Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of R- and H- phrases: see section 16

Name : BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE

CAS No : 100-52-7 (Unlabeled)
EC No : 202-860-4 (Unlabeled)
EC Index No : 605-012-00-5 (Unlabeled)

Name	Product identifier	%	GHS-US classification
BENZALDEHYDE (RING-13C6, 99%)	(CAS No) 100-52-7 (Unlabeled)	99.9	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 2, H401
HYDROQUINONE UNLABELED	(CAS No) 123-31-9	0.1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

### 3.2. Mixtures

Not applicable

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### **SECTION 4: First aid measures**

### **Description of first aid measures**

First-aid measures general : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

First-aid measures after inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

: Wash with soap and plenty of water. Consult a physician.

physician. First-aid measures after skin contact

First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

First-aid measures after ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### Most important symptoms and effects, both acute and delayed

: May be harmful if inhaled. May cause respiratory tract irritation. May cause an allergic skin Symptoms/injuries after inhalation

reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled

Symptoms/injuries after skin contact : Harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : Harmful if swallowed.

### Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

### Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : Not available

### Advice for firefighters

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Under fire conditions, material may decompose to form flammable and/or explosive mixtures in

air. Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate **Emergency procedures** 

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### For emergency responders

No additional information available

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and material for containment and cleaning up

For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations.

### Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

### Precautions for safe handling

Additional hazards when processed : Keep away from sources of ignition - No smoking. Take precautionary measures to prevent the

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for

preventive fire protection.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Conditions for safe storage, including any incompatibilities

: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened Technical measures

must be carefully resealed and kept upright to prevent leakage.

: Store refrigerated (-5 C to 5 C). Protect from light. Storage conditions

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### Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE		
USA OSHA	Remark (OSHA)	Benzaldehyde CAS No. 100-52-7 TWA 2 ppm Remarks: Dermal Sensitization Notation; STEL 4 ppm Remarks: Dermal Sensitization Notation. USA. Workplace Environmental Exposure Levels (WEEL)
HYDROQUINONE UNLABELED (123-31-9)		

Italy - Portugal - USA ACGIH ACGIH TWA (mg/m3) 1 mg/m3 Eye irritation. Eye damage 2008 Adoption. Sensitizer

### BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))

Benzaldehyde CAS No. 100-52-7 TWA 2 ppm USA OSHA Remark (OSHA) Remarks: Dermal Sensitization Notation; STEL 4 ppm Remarks: Dermal Sensitization Notation. USA. Workplace Environmental Exposure Levels (WEEL)

### **Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

Personal protective equipment Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection Choose body protection according to the amount and concentration of the dangerous

substance at the work place.

Respiratory protection When appropriate, use NIOSH/CEN approved respirator.

Environmental exposure controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Physical state : Liquid **Appearance** : Liquid.

Molecular mass : 112.08 g/mol (Labeled) Color : Colorless to Slightly yellow.

Odor : No data available Odor threshold : No data available : 5.9 at 20 °C (68 °F) Hq Relative evaporation rate (butyl acetate=1) : No data available Melting point : -26 °C (-15 °F) - lit. Freezing point : No data available

: 178 - 179 °C (352 - 354 °F) - lit. Boiling point : 64 °C (147 °F) - closed cup Flash point

Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available

: 5 hPa (4 mmHg) at 45 °C (113 °F) Vapor pressure

Relative vapor density at 20 °C : 3.66 - (Air = 1.0) Relative density : No data available

Specific gravity / density : 1.045 g/ml at 25 °C (77 °F) Solubility : Water: slightly soluble

Log Pow

Log Kow : No data available

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Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidizing properties : No data available **Explosion limits** : 1.4 - 8.5 vol % (V)

### Other information

No additional information available

### SECTION 10: Stability and reactivity

#### Reactivity 10.1.

Not available.

#### 10.2. **Chemical stability**

Six months after receipt of order if stored as above. Re-Qc after six months.

### Possibility of hazardous reactions

No additional information available

#### **Conditions to avoid** 10.4.

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agent. Strong reducing agents. Strong bases. Alkali metals. Aluminum. Iron. Phenols. Oxygen.

### **Hazardous decomposition products**

No data available.

### **SECTION 11: Toxicological information**

### Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.
BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE	
LD50 oral rat	1300 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Coma.
LD50 dermal rabbit	1250 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
HYDROQUINONE UNLABELED (123-31-9)	
LD50 oral rat	367.3 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
BENZALDEHYDE (RING-13C6, 99%) (100-52-	7 (Unlabeled))
LD50 oral rat	1300 mg/kg Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Coma.
LD50 dermal rabbit	1250 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
Skin corrosion/irritation	: Skin - rabbit - Mild skin irritation - 24 h
	pH: 5.9 at 20 °C (68 °F)
Serious eye damage/irritation	: Eyes - Rabbit Result: Mild eye irritation
	pH: 5.9 at 20 °C (68 °F)
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Laboratory experiments have shown mutagenic effects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Central nervous system depression. Prolonged or repeated exposure to skin causes defatting and dermatitis. Liver - Irregularities - Based on Human Evidence. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.

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Symptoms/injuries after skin contact : May be harmful in contact with skin. Causes skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : Harmful if swallowed. May cause irritation of the digestive tract.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE	
LC50 fish 1	1.07 mg/l Lepomis macrochirus - 96 h
EC50 Daphnia 1	50 mg/l Daphnia magna (Water flea) - 24 h
LC50 fish 2	62 mg/l Leuciscus idus (Golden orfe) - 48 h
LOEC (acute)	0.45 mg/l mortality - Pimephales promelas (fathead minnow) - 7 d
NOEC (acute)	0.22 mg/l mortality - Pimephales promelas (fathead minnow) - 7 d
HYDROQUINONE UNLABELED (123-31-9)	

HYDROQUINONE UNLABELED (123-31-9)	
LC50 fish 1	0.04 - 0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.13 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	0.335 mg/l Pseudokirchneriella subcapitata (green algae) - 72 h

BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))	
LC50 fish 1	1.07 mg/l Lepomis macrochirus - 96 h
EC50 Daphnia 1	50 mg/l Daphnia magna (Water flea) - 24 h
LC50 fish 2	62 mg/l Leuciscus idus (Golden orfe) - 48 h
LOEC (acute)	0.45 mg/l mortality - Pimephales promelas (fathead minnow) - 7 d
NOEC (acute)	0.22 mg/l mortality - Pimephales promelas (fathead minnow) - 7 d

### 12.2. Persistence and degradability

BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	95 % Readily biodegradable
HVDDOOIIINONE IINI ADELED (422-24-0)	

BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))	
Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	95 % Readily biodegradable

Result - Readily biodegradable.

### 12.3. Bioaccumulative potential

BENZALDEHYDE (RING-13C6, 99%) +0.1% HY	<b>'DROQUINONE</b>
Log Dow	1.5

<u> </u>	
HYDROQUINONE UNLABELED (123-31-9)	
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3d
Bioconcentration factor (BCF REACH)	40
Log Pow	0.59

BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))		
	Log Pow	1.5

### 12.4. Mobility in soil

HYDROQUINONE UNLABELED (123-31-9)	
Ecology - soil	Not available.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of an unprofessional handling or disposal. Toxic to aquatic life.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local
	onvironmental control regulations

Product/Packaging disposal recommendations: : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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Ecology - waste materials : Dispose of as unused product.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No.(DOT) : 1990 DOT NA no. UN1990

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Benzaldehyde

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Symbols : + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group

Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature

during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241

### 14.3. Additional information

Other information : No supplementary information available.

### **Overland transport**

Packing group (ADR) : III

Class (ADR) : 9 - Miscellaneous dangerous substances and articles

Hazard identification number (Kemler No.) : 90
Classification code (ADR) : M11

Hazard labels (ADR) : 9 - Miscellaneous dangerous substances and articles



Orange plates

90

Tunnel restriction code (ADR) : E
Limited quantities (ADR) 51
EAC : 3Z
Excepted quantities (ADR) : E1

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

MFAG-No : 129

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### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 100 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles

### **Environmental hazards**

Other information : No supplementary information available.

#### 14.5. Special precautions for user

#### 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of United States SARA Section 313

HYDROQUINONE UNLABELED (123-31-9)	UNLABELED (123-31-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313	

, ,	, , , , , ,
BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of United States SARA Section 313

### 15.2. International regulations

### **CANADA**

### BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE

Listed on the Canadian DSL (Domestic Substances List)

### **National regulations**

No additional information available

### 15.3. US State regulations

BENZALDEHYDE (RING-13C6, 99%) +0.1% HYDROQUINONE		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List	

HYDROQUINONE UNLABELED (123-31-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

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BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

### **HYDROQUINONE UNLABELED (123-31-9)**

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

### BENZALDEHYDE (RING-13C6, 99%) (100-52-7 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

### Full text of R-, H- and EUH-phrases:

text of R-, H- and EUH-phrases:			
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2		
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1		
Carc. 2	Carcinogenicity Category 2		
Eye Dam. 1	Serious eye damage/eye irritation Category 1		
Muta. 2	Germ cell mutagenicity Category 2		
Resp. Sens. 1	Respiratory sensitisation Category 1		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
Skin Sens. 1	Skin sensitization Category 1		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H301	Toxic if swallowed		
H302	Harmful if swallowed		
H312	Harmful in contact with skin		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H318	Causes serious eye damage		
H330	Fatal if inhaled		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
H335	May cause respiratory irritation		
H341	Suspected of causing genetic defects		
H351	Suspected of causing cancer		
H400	Very toxic to aquatic life		
R21/22	Harmful in contact with skin and if swallowed		
R22	Harmful if swallowed		
R24/25	Toxic in contact with skin and if swallowed		
R26	Very toxic by inhalation		
R36	Irritating to eyes		
R37	Irritating to respiratory system		
R38	Irritating to skin		
R39	Danger of very serious irreversible effects		
R42	May cause sensitization by inhalation		
R43	May cause sensitization by skin contact		
R46	May cause heritable genetic damage		
R50	Very toxic to aquatic organisms		
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
N	Dangerous for the environment		
T	Toxic		
T+	Very toxic		
• •	vory toxic		

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### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Ī	Vi	Irritant
	ΛI	irritant
	Xn	Harmful

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

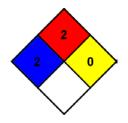
temporary incapacitation or residual injury.

 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can

occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



### **HMIS III Rating**

NFPA fire hazard

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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