



# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

## 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: 10/11/2016

Supersedes: 16/03/2011

Version: 2.0

DLM-396

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

### 1.1. Product identifier

Product form	: Substance
Substance name	: BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)
EC Index No	: 605-012-00-5 (Unlabeled)
EC No	: 202-860-4 (Unlabeled)
CAS No	: 17901-93-8
Product code	: DLM-396
Formula	: C6D5CDO
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

USA: 1-800-322-1174 Int: 1-978-749-8000

[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

### 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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DLM-396

## 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

Aquatic Acute 2 H401

Full text of H statements : see section 16

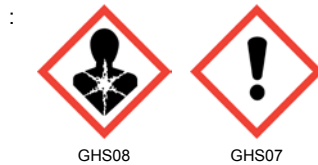
### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling 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, vapours  
P264 - Wash hands, forearms and face 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 Self contained breathing apparatus  
P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water

### GHS-US labelling

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, vapours  
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 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, Dry powder. 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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DLM-396

## 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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name : BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)  
CAS No : 17901-93-8  
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 (D6, 98%)	(CAS No) 17901-93-8 (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 (D6, 98%)	(CAS No) 17901-93-8 (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 (EC Index No) 604-005-00-4	0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist), 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-statements: see section 16

Name : BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)  
CAS No : 17901-93-8  
EC No : 202-860-4 (Unlabeled)  
EC Index No : 605-012-00-5 (Unlabeled)

Name	Product identifier	%	GHS-US classification
BENZALDEHYDE (D6, 98%)	(CAS No) 17901-93-8	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-statements: see section 16

### 3.2. Mixtures

Not applicable

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

### SECTION 4: First aid measures

#### 4.1. 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 physician.
- First-aid measures after skin contact : Wash with soap and plenty of water. Consult a physician.
- 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.

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

- Symptoms/injuries after inhalation : May be harmful if inhaled. Causes respiratory tract irritation.
- Symptoms/injuries after skin contact : May be fatal if absorbed through skin. Causes skin irritation.
- Symptoms/injuries after eye contact : May cause eye irritation.
- Symptoms/injuries after ingestion : May be harmful if swallowed. Harmful if swallowed. May cause irritation of the digestive tract.

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

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. 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.

#### 5.3. 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

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

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. 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.

#### 6.3. 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.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place. Opened containers must be carefully resealed and kept upright to prevent leakage.
- Storage conditions : Store refrigerated (-5 C to 5 C). Protect from light.

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)		
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/m <sup>3</sup> )	1 mg/m <sup>3</sup> Eye irritation. Eye damage 2008 Adoption . Sensitizer.
BENZALDEHYDE (D6, 98%) (17901-93-8)		
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)

### 8.2. 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

### 9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 112.16 g/mol (Labeled)
Colour	: Colourless to slightly yellow.
Odour	: No data available
Odour threshold	: No data available
pH	: 5.9 at 20 °C (68 °F)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -26 °C (-15 °F) - lit.
Freezing point	: No data available
Boiling point	: 178 - 179 °C (352 - 354 °F) - lit.
Flash point	: 64 °C (147 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 5 hPa (4 mmHg) at 45 °C (113 °F)
Relative vapour density at 20 °C	: 3.66 - (Air = 1.0)
Relative density	: No data available
Density	: 1.045 g/ml at 25 °C (77 °F)
Solubility	: Water: slightly soluble
Log Pow	: 1.5

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1.4 - 8.5 vol % (V)

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Not available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat, flames and sparks.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)	
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 bodyweight
ATE CLP (dermal)	1100.000 mg/kg bodyweight

HYDROQUINONE UNLABELED (123-31-9)	
LD50 oral rat	367.3 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

BENZALDEHYDE (D6, 98%) (17901-93-8)	
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 bodyweight
ATE CLP (dermal)	1100.000 mg/kg bodyweight

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 sensitisation	: 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
STOT-single exposure	: Not classified
STOT-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.

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DLM-396

## 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

Symptoms/injuries after inhalation	: May be harmful if inhaled. Causes respiratory tract irritation.
Symptoms/injuries after skin contact	: May be fatal if absorbed through skin. Causes skin irritation.
Symptoms/injuries after eye contact	: May cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed. Harmful if swallowed. May cause irritation of the digestive tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

LC50 fish 1	1.07 mg/l <i>Lepomis macrochirus</i> - 96 h
EC50 Daphnia 1	50 mg/l <i>Daphnia magna</i> (Water flea) - 24 h
LC50 fish 2	62 mg/l <i>Leuciscus idus</i> (Golden orfe) - 48 h
LOEC (acute)	0.45 mg/l mortality - <i>Pimephales promelas</i> (fathead minnow) - 7 d
NOEC (acute)	0.22 mg/l mortality - <i>Pimephales promelas</i> (fathead minnow) - 7 d

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

LC50 fish 1	0.04 - 0.1 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	0.13 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ErC50 (algae)	0.335 mg/l <i>Pseudokirchneriella subcapitata</i> (green algae) - 72 h

#### BENZALDEHYDE (D6, 98%) (17901-93-8)

LC50 fish 1	1.07 mg/l <i>Lepomis macrochirus</i> - 96 h
EC50 Daphnia 1	50 mg/l <i>Daphnia magna</i> (Water flea) - 24 h
LC50 fish 2	62 mg/l <i>Leuciscus idus</i> (Golden orfe) - 48 h
LOEC (acute)	0.45 mg/l mortality - <i>Pimephales promelas</i> (fathead minnow) - 7 d
NOEC (acute)	0.22 mg/l mortality - <i>Pimephales promelas</i> (fathead minnow) - 7 d

### 12.2. Persistence and degradability

#### BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	95 % Readily biodegradable

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

Persistence and degradability	Biotic/Aerobic. Biodegradability: Result - Readily biodegradable.
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#### BENZALDEHYDE (D6, 98%) (17901-93-8)

Persistence and degradability	Aerobic - exposure time: 28 d.
Biodegradation	95 % Readily biodegradable

### 12.3. Bioaccumulative potential

#### BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

Log Pow	1.5
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#### HYDROQUINONE UNLABELED (123-31-9)

BCF fish 1	0.05 mg/l <i>Leuciscus idus</i> (Golden orfe) - 3d
Bioconcentration factor (BCF REACH)	40
Log Pow	0.59

#### BENZALDEHYDE (D6, 98%) (17901-93-8)

Log Pow	1.5
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### 12.4. Mobility in soil

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

Ecology - soil	Not available.
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### 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 environmental control regulations.

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

- 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.
- 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.  
Special transport precautions : Not dangerous goods.

#### Overland transport

- Packing group (ADR) : III  
Class (ADR) : 9 - Miscellaneous dangerous substances and articles  
Hazard identification number (Kemler No.) : 90  
Classification code (ADR) : M11  
Danger labels (ADR) : 9 - Miscellaneous dangerous substances and articles



- Orange plates : An orange rectangular plate with a black border. It contains the number '90' in the top half and '1990' in the bottom half, both in black text.  
Tunnel restriction code (ADR) : E  
Limited quantities (ADR) : 5I  
EAC code : 3Z  
Excepted quantities (ADR) : E1



# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

### 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

### 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 (Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

Special transport precautions : Not dangerous goods.

### 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 (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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 the United States SARA Section 313

#### HYDROQUINONE 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 (D6, 98%) (17901-93-8)

SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, 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 the United States SARA Section 313

### 15.2. International regulations

#### CANADA

#### BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE) (17901-93-8)

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

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

<b>BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)(17901-93-8)</b>	
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
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

<b>HYDROQUINONE UNLABELED (123-31-9)</b>				
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	

<b>BENZALDEHYDE (D6, 98%) (17901-93-8)</b>				
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	

<b>HYDROQUINONE UNLABELED (123-31-9)</b>				
<b>State or local regulations</b>				
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				

<b>BENZALDEHYDE (D6, 98%) (17901-93-8)</b>				
<b>State or local regulations</b>				
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				

## 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-statements:

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	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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

# BENZALDEHYDE (D6, 98%) (+0.1% HYDROQUINONE)

DLM-396

## 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

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 sensitisation 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
Xi	Irritant
Xn	Harmful

NFPA health hazard

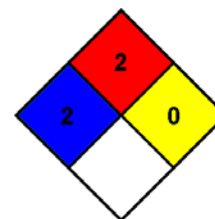
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 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

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 2 Moderate Hazard

Physical

: 0 Minimal Hazard

CIL 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*