

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: 13/01/2011 Revision date: 01/03/2017 Supersedes: 16/07/2014 Version: 2.0

DLM-259

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

1.1. Product identifier

Product form : Substance

Substance name : BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE)

EC No : 261-790-2 (Labeled)

 CAS No
 : 59502-05-5

 Product code
 : DLM-259

 Formula
 : C6D5CD2CI

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 <u>cilsales@isotope.com</u> 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. 3 (Inhalation) H331
Skin Irrit. 2 H315
Eye Dam. 1 H318
Skin Sens. 1 H317
STOT SE 3 H335

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; R22 T; R23 Xi; R37/38 R43 Xi; R41

Carc.Cat.1; R45 Carc.Cat.1; R49 Carc.Cat.2; R49

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 4 H227 Acute Tox. 4 (Oral) H302 Acute Tox. 3 (Inhalation) H331 Skin Irrit. 2 H315 Eye Dam. 1 H318

01/03/2017 EN (English) 1/10

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

Skin Sens. 1 H317 STOT SE 3 H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

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

Hazard pictograms (CLP)





GHS06



Signal word (CLP) : Danger

Hazard statements (CLP) : H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

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

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

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

P280 - Wear protective clothing, protective gloves

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

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

GHS-US labelling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H227 - Combustible liquid

H302 - Harmful if swallowed H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

H331 - Toxic if inhaled

H335 - May cause respiratory irritation

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

> P261 - Avoid breathing vapours, mist, gas, fume P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

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

P280 - Wear protective clothing, protective gloves P301+P312 - If swallowed: Call a 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

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor

P311 - Call a doctor

P312 - Call a doctor if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labelling 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 P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse

01/03/2017 2/10 EN (English)

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

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), D-powder to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE)	(CAS No) 59502-05-5 (EC No) 261-790-2 (Labeled) (EC Index No)	100	Xn; R22 T; R23 Xi; R37/38 R43 Xi; R41 Carc.Cat.1; R45 Carc.Cat.1; R49 Carc.Cat.2; R49
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE)	(CAS No) 59502-05-5 (EC No) 261-790-2 (Labeled) (EC Index No)	100	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

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

Name	Product identifier	%	GHS-US classification
BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (Main constituent)	(CAS No) 59502-05-5	100	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing, give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

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

Symptoms/injuries after inhalation : May cause respiratory irritation. Toxic if inhaled.

Symptoms/injuries after skin contact : May cause moderate irritation. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed.

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

No additional information available

01/03/2017 EN (English) 3/10

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 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus.

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

Other information : Use water spray to cool exposed surfaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid breathing vapours, mist, gas. Avoid dust formation. Wear respiratory protection. Ensure

adequate air ventilation. Evacuate danger area. Eliminate all ignition sources if safe to do so.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not discharge the product into the environment.

6.3. Methods and material for containment and cleaning up

For containment : For large spills, or

: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect spillage. Comply with local regulations for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation to minimize dust and/or vapour concentrations. Avoid contact with

skin and eyes. Keep away from sources of ignition - No smoking. Take precautions against

electrostatic charges.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a well-ventilated place. Keep container tightly closed.

Storage conditions : Store at room temperature away from light and moisture.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1.00000000 ppm Remarks:Upper Respiratory Tract irritation;Eye irritation;Skin irritation;Confirmed animal carcinogen with unknown relevance to humans;USA. ACGIH Threshold Limit Values (TLV)
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	5 mg/m³ 15 minute ceiling value;USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (ceiling) (ppm)	1 ppm 15 minute ceiling value;USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ The value in mg/m³ is approximate.USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for AirZ-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (TWA) (ppm)	1 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for AirZ-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)

01/03/2017 EN (English) 4/10

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

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)		
USA OSHA	OSHA PEL (Ceiling) (ppm)	1 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Exposure controls

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

 $: \ \, {\sf Gloves.\,Protective\,\, clothing.\,\, Protective\,\, goggles.\,\, Self-contained\,\, breathing\,\, apparatus.}$ Personal protective equipment



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

: Wear eye protection. Chemical goggles or face shield with safety glasses. Eye protection

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

: In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. Respiratory protection

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

: Liquid Physical state Appearance : Liquid.

: 133.63 g/mol (Labeled) Molecular mass

Colour : Colourless. Odour : Pungent.

Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : -43 - -39 °C (-45 - -38 °F)

No data available

Freezing point

: 177 - 181 °C (351 - 358 °F) at 1,013 hPa (760 mmHg) **Boiling** point

Flash point : 67 °C (153 °F)

: 585 °C (1,085 °F) at 1,030 hPa (773 mmHg) Auto-ignition temperature

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

Vapour pressure : 1.6 hPa (1.20 mmHg) at 25 °C (77 °F)

: 4.37 - (Air = 1.0) Relative vapour density at 20 °C Relative density No data available Density : 1.1 g/ml at 20 °C (68 °F)

Solubility : Water: 0.46 g/l at 30 °C (86 °F) - Decomposes in contact with water.

Log Pow

Log Kow : No data available Viscosity, kinematic : No data available : No data available Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available Explosive limits : 1.1 - 14 vol %

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable if stored under recommended conditions.

01/03/2017 EN (English) 5/10

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

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Oxidizing agent. Iron, Iron salts, Aluminum. Brass.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2). Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation: Toxic if inhaled.

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)		
LD50 oral rat	560 mg/kg - Rat - male and female (OECD Test Guideline 401)	
ATE CLP (oral)	500.000 mg/kg bodyweight	
ATE CLP (gases)	700.000 ppmv/4h	
ATE CLP (vapours)	3.000 mg/l/4h	
ATE CLP (dust,mist)	0.500 mg/l/4h	

 Skin corrosion/irritation
 : Causes skin irritation.

 Serious eye damage/irritation
 : Causes serious eye damage.

 Respiratory or skin sensitisation
 : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

IARC group

: 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. Burning sensation. Cough. Wheezing. Laryngitis. Shortness of breath. Headache. Nausea. Vomiting.

: 2A. 2B

Symptoms/injuries after inhalation : May cause respiratory irritation. Toxic if inhaled.

Symptoms/injuries after skin contact : May cause moderate irritation. Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)	
LC50 fish 1	4 mg/l LC50 - Danio rerio (zebra fish) - 96 h (OECD Test Guideline 203)
LC50 other aquatic organisms 1	6.1 mg/l Immobilization EC50 - Daphnia magna (Water flea) - 48 h (OECD Test Guideline 202)
ErC50 (algae)	19.3 mg/l Growth inhibition EC50 - Pseudokirchneriella subcapitata (algae) - 72 h (OECD Test Guideline 201)

12.2. Persistence and degradability

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)	
Biodegradation	71 % - Readily biodegradable (OECD Test Guideline 301C); aerobic - Exposure time 28 d

12.3. Bioaccumulative potential

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)	
Log Pow	2.3

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

01/03/2017 EN (English) 6/10

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

Other adverse effects 12.6

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

SECTION 13: Disposal considerations

Waste treatment methods

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

environmental 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.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

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

UN number

UN-No.(DOT) : 1738 UN1738 DOT NA no.

UN proper shipping name

Proper Shipping Name (DOT) : Benzyl chloride unstabilized

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Hazard labels (DOT) 6.1 - Poison

8 - Corrosive





Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102)

A3 - For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in

A7 - Steel packagings must be corrosion-resistant or have protection against corrosion.

B8 - Packagings shall be made of nickel, stainless steel, or steel with nickel, stainless steel, lead or other suitable corrosion resistant metallic lining.

B11 - Tank car tanks must have a test pressure of at least 2,068.5 kPa (300 psig). Cargo and portable tanks must have a design pressure of at least 1,207 kPa (175 psig).

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.

N33 - Aluminum drums are not authorized.

N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.

N43 - Metal drums are permitted as single packagings only if constructed of nickel or monel.

T8 - 4 178.274(d)(2) Normal..... Prohibited

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP12 - This material is considered highly corrosive to steel.

TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243

Additional information

Emergency Response Guide (ERG) Number : 156

Other information : No supplementary information available.

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

01/03/2017 7/10 EN (English)

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

Overland transport

Packing group (ADR) : II

Class (ADR) : 6.1 - Toxic substances

Hazard identification number (Kemler No.) : 68
Classification code (ADR) : TC1

Danger labels (ADR) : 6.1 - Toxic substances

8 - Corrosive substances



Orange plates

68 1738

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 0
EAC code : 2X
Excepted quantities (ADR) : E4

Transport by sea

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel

carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger

vessels in which the limiting number of passengers is exceeded.

DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable,40 - Stow "clear of living quarters"

MFAG-No : 156

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L

CFR 175.75)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances(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 classified as dangerous in the meaning of transport regulations.

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

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)		
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on 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	Subject to reporting requirements of United States SARA Section 313	

01/03/2017 EN (English) 8/10

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

15.2. International regulations

CANADA

No additional information available

15.2.1. National regulations

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE) (59502-05-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.3. US State regulations

BENZYL CHLORIDE (D7,98%) (+0.1%PROPYLENE OXIDE)(59502-05-5)		
U.S California - Proposition 65 - Carcinogens List	Yes	
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 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. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, 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
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H335	May cause respiratory irritation
R22	Harmful if swallowed
R23	Toxic by inhalation
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
R43	May cause sensitisation by skin contact
R45	May cause cancer
R49	May cause cancer by inhalation
Т	Toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

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

occu

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.

3 0

01/03/2017 EN (English) 9/10

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

HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

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

01/03/2017 EN (English) 10/10