

## CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE

### 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: 22/10/2018 Revision date: : Version: 1.0 CDLM-10692-S

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixtures
Product name	: CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE
Product code	: CDLM-10692-S
1.2. Relevant identified uses	s of the substance or mixture and uses advised against
1.2.1. Relevant identified uses	S
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	of the safety data sheet
Cambridge Isotope Laboratories, In 50 Frontage Road Andover, MA 01810 USA	ıc.
USA: 1-800-322-1174 Int: 1-978- cilsales@isotope.com www.isoto	
Emergency telephone n	lumber
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 ho International: 1-703-741-5970 (24	
SECTION 2: Hazards ident	ification
2.1. Classification of the sul	bstance or mixture
2.1. Classification of the sul Classification according to Regu	
Classification according to Regu	
Classification according to Regu Flam. Liq. 2 H225	
Classification according to ReguFlam. Liq. 2H225Acute Tox. 4 (Oral)H302	
Classification according to ReguFlam. Liq. 2H225Acute Tox. 4 (Oral)H302Acute Tox. 4 (Dermal)H312	
Classification according to ReguFlam. Liq. 2H225Acute Tox. 4 (Oral)H302Acute Tox. 4 (Dermal)H312Acute Tox. 4 (Inhalation)H332	lation (EC) No. 1272/2008 [CLP]
Classification according to ReguFlam. Liq. 2H225Acute Tox. 4 (Oral)H302Acute Tox. 4 (Dermal)H312Acute Tox. 4 (Inhalation)H332Eye Irrit. 2H319Full text of hazard classes and H-st	lation (EC) No. 1272/2008 [CLP]
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Classification according to Regu Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2 H319 Full text of hazard classes and H-st Classification according to Direct F; R11 Xi; R36	tatements : see section 16 tive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Classification according to Regu Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Acute Tox. 4 (Dermal) H312 Acute Tox. 4 (Inhalation) H332 Eye Irrit. 2 H319 Full text of hazard classes and H-st Classification according to Direc F; R11 Xi; R36 Xn; R20/21/22	tatements : see section 16 tive 67/548/EEC [DSD] or 1999/45/EC [DPD]
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Adverse physicochemical, human health and environmental effects

Lungs, Blood, Kidney, Liver, Central nervous system.

ACETONITRILE CDLM-10692-S

#### Safety Data Sheet

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#### 2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 Signal word (CLP) : Danger Hazard statements (CLP) H225 - Highly flammable liquid and vapour H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing vapors, mist, gas. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. **GHS-US** labeling Hazard pictograms (GHS-US) GHS02 GHS07 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H319 - Causes serious eye irritation Precautionary statements (GHS-US) P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, face protection, 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 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower 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 P312 - Call a doctor if you feel unwell P321 - Specific treatment (see Hazardous component(s) for labeling on this label) P330 - Rinse mouth. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. 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

ACETONITRILE CDLM-10692-S

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

### Safety Data Sheet

Substance

0.4

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

3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	F; R11 Xi; R36 Xn; R20/21/22
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%)	(CAS-No.) 63597-73-9 (Unlabeled) (EC Index-No.)	0.013	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8 (EC-No.) 200-835-2 (EC Index-No.) 608-001-00-3 (REACH-no) 01-2119471307-38	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%)	(CAS-No.) 63597-73-9 (Unlabeled) (EC Index-No.)	0.013	Not classified
Name	Product identifier	%	GHS-US classification
ACETONITRILE UNLABELED	(CAS-No.) 75-05-8	99.987	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%)	(CAS-No.) 63597-73-9 (Unlabeled)	0.013	Not classified

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Evacuate area.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Call a physician immediately. Get immediate medical advice/attention.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Immediately call a poison center or doctor/physician. Specific measures (see Hazard pictograms (CLP) on this label). Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.
4.3. Indication of any immediate med	ical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	

SECI	ion 5. Firengining measures		
5.1.	Extinguishing media		
Suitable	e extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).	
5.2.	Special hazards arising from the s	substance or mixture	
Fire ha	zard	: Highly flammable liquid and vapour.	
Explosi	on hazard	: May form flammable/explosive vapor-air mixture.	
Reactiv	rity	: Vapors may form explosive mixture with air.	
22/10/20	018	EN (English US)	3/11

ACETONITRILE CDLM-10692-S

### Safety Data Sheet

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Firefighting instructions       : Wear a self contained breathing apparatus. Fight fire with normal precautions from a creasonable distance.         Protection during firefighting       : Do not entifie fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.         Other information       : Use water spray to cool unopened containers.         SECTION 64. Accidental release measures       : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.         6.1. For non-emergency personnel       : Use personal protective equipment as required. Avoid breathing uppors, mist, gas. Ensure adequate a ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.1. For non-emergency personnel       : Sep personal protective equipment as required. Avoid breathing upports, mist, gas. Ensure adequate avientition to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.2. For emergency responders       : For further information refer to section 8: "Exposure controls/personal protection".         6.2. Environmental procautions       : Dike and contain egnit. Disposal should be in accordance with applicable Federal, State and local regulations.         Methods and material for containered       : Dike and container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.         6.4. Reference to o				
Protective during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves. Chter information : Use water spray to cool unopened containers. SECTION 6: Accidental release measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. 6.1. Personal procautions, protective equipment and emergency procedures. General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. 6.1.1. For non-emergency personnel Emergency procedures in ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources it safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate. 6.1.2. For emergency responders Protective equipment are for the relation in should be given to low areas/pits where flammable vapors can accumulate. 6.2. Environmental precautions Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment. 6.3. Methods and material for containment and cleaning up For containment in Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations. 6.4. Reference to other sections No additional information available SECTION 74 Handling and storage 7.1. Precautions for safe handling Additional hazards when processed 2. Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty container with care percodura flame should be followed. Groundhond 2. Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static d	Ť			
Wear self-contained breathing apparatus, rubber boots and thick rubber gloves."         Other information       : Use water spray to cool unopened containers.         SECTION 6: Accidental release measures	Firefighting instructions			
SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures         General measures       : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.         6.1.1. For non-emergency personnel       Emergency procedures         : Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.2. For emergency responders       Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.2. Environmental precautions       Protective equipment         Protective equipment       : For further information refer to section 8: "Exposure controls/personal protection".         6.2. Environmental precautions       : Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.         Methods for cleaning up       : Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shoce and safe way, and as per local legislation.         6.4. Reference to other sections       Sections         No additional information available       : Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources	Protection during firefighting			
6.1. Personal precautions, protective equipment and emergency procedures         General measures       : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.         6.1.1. For non-emergency personnel       Emergency procedures         Emergency procedures       : Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.2. For emergency responders       Protective equipment       : For further information refer to section 8: "Exposure controls/personal protection".         6.2. Environmental precautions       Protective equipment       : Dik and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.         6.3. Methods and material for containment and cleaning up       Environment       : Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.         Methods for cleaning up       : Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and asfer way, and as per local legislation.         6.4. Reference to other sections       No additional information available         SECTION 7: Handling and storage       : Avoid all eye and skin contat and on to breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary m	Other information	: Use water spray to cool unopened containers.		
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6.1.1. For non-emergency personnel         Emergency procedures       Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Ensure adequate air ventilation. Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Provide adequate ventilation to minimize dust and/or vapor concentrations. Special attention should be given to low areas/pits where flammable vapors can accumulate.         6.1.2. For emergency responders       Protective equipment       : For further information refer to section 8: "Exposure controls/personal protection".         6.2. Environmental precautions       Prevent entry to severs and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.         6.3. Methods and material for containment and cleaning up       For containment       : Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.         Methods for cleaning up       : Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.         6.4. Reference to other sections       : Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.         Precautions for safe handling       : No open flames. No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.	6.1. Personal precautions, protective e	quipment and emergency procedures		
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Prevent entry to severs and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.         6.3.       Methods and material for containment and cleaning up         For containment <ul> <li>Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.</li> <li>Methods for cleaning up</li> <li>Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.</li>         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        <ul> <li>Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.</li> </ul> <li>Precautions for safe handling</li> <li>No open flames. No smoking. Use only non-sparking tools.</li> <li>Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.</li> <li>7.2.</li> <li>Conditions for safe storage, including any incompatibilities</li> <li>Technical measures</li> <li>Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.</li></ul>	Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".		
6.3. Methods and material for containment and cleaning up         For containment <ul> <li>Dike and contain spill. Disposal should be in accordance with applicable Federal, State and local regulations.</li> </ul> Methods for cleaning up <ul> <li>Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.</li> </ul> 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 <ul> <li>Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.</li> </ul> Precautions for safe handling <ul> <li>No open flames. No smoking. Use only non-sparking tools.</li> <li>Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.</li> </ul> 7.2. Conditions for safe storage, including any incompatibilities         Technical measures              Proper grounding procedures to avoid static electricity should be followed. Ground/bond containere and receiving equipment. Use explosion-p	6.2. Environmental precautions			
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Methods for cleaning up       iccal regulations.         Methods for cleaning up       : Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.         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       : Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable.         Precautions for safe handling       : No open flames. No smoking. Use only non-sparking tools.         Hygiene measures       : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.         7.2.       Conditions for safe storage, including any incompatibilities         Technical measures       : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.         Storage conditions       : Store at room temperature away from light and moisture.	6.3. Methods and material for containm	nent and cleaning up		
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Technical measures       : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.         Storage conditions       : Store at room temperature away from light and moisture.	Hygiene measures			
container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment.         Storage conditions       : Store at room temperature away from light and moisture.	7.2. Conditions for safe storage, includ	7.2. Conditions for safe storage, including any incompatibilities		
	Technical measures	container and receiving equipment. Use explosion-proof Lighting equipment, ventilating		
Incompatible materials : Heat sources.	Storage conditions	: Store at room temperature away from light and moisture.		
	Incompatible materials	: Heat sources.		
7.3. Specific end use(s)	7.3. Specific end use(s)			
No additional information available	No additional information available			
SECTION 8: Exposure controls/personal protection	SECTION 8: Exposure controls/pers	sonal protection		

8.1. Control parameters		
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	34 mg/m <sup>3</sup> Forms Cyanide in the body.
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	70 mg/m <sup>3</sup> The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm The value in mg/m3 is approximate.

## ACETONITRILE CDLM-10692-S

#### 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

ACETONITRILE UNLABELED (75-05-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm Lower Respiratory Tract irritation. Not classifiable as a human carcinogen.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	34 mg/m <sup>3</sup> Forms Cyanide in the body.
USA NIOSH	NIOSH REL (TWA) (ppm)	20 ppm Forms Cyanide in the body.
USA OSHA	OSHA PEL (TWA) (mg/m³)	70 mg/m <sup>3</sup> The value in mg/m3 is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	40 ppm The value in mg/m3 is approximate.

# 8.2. Exposure controls Appropriate engineering controls

: Handle in accordance with good industrial hygiene and safety procedures.

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



Materials for protective clothing : W	Vear suitable protective clothing and gloves.
Hand protection : W	Vear suitable protective clothing and gloves.
Eye protection : C	Chemical goggles or face shield with safety glasses.
Skin and body protection : W	Vear suitable protective clothing, gloves and eye/face protection.
	Vhere exposure through inhalation may occur from use, respiratory protection equipment is ecommended.
Environmental exposure controls : A	void release to the environment.

### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	hemical properties	
The properties listed below are for the solvent, the main component of this mixture.		
Physical state	: Liquid	
Appearance	: Liquid, clear	
Molecular mass	: 41.05 g/mol	
Color	: Colorless	
Odor	: Ether-like	
Odor threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: -48 °C (-54°F)	
Freezing point	: No data available	
Boiling point	: 81 - 82 °C (178 - 180 °F)	
Flash point	: 2 °C (35.6 °F) - closed cup	
Auto-ignition temperature	: 523 °C (973 °F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Highly flammable liquid and vapour	
Vapor pressure	: 73.18 hPa (54.89 mmHg) at 15°C (59 °F), 119.81 hPa (89.86 mmHg) at 25°C(77 °F)	
Relative vapor density at 20 °C	: 1.42 - (Air = 1.0)	
Relative density	: No data available	
Specific gravity / density	: 0.786 g/ml	
Solubility	: Water: 100 %	
Log Pow	: -0.34	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Explosion limits	: 4.4 - 16 vol %	
9.2. Other information		

No additional information available

ACETONITRILE CDLM-10692-S

### 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 10: Stability and reactivity	
10.1. Reactivity	
Vapors may form explosive mixture with air.	
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
Highly flammable liquid and vapour.	
10.4. Conditions to avoid	
Heat. Open flame. Direct sunlight. Sparks. Extren	nely high or low temperatures.
10.5. Incompatible materials	
Acids, Bases, Oxidizing agents, Reducing agents	, Alkali metals.
10.6. Hazardous decomposition products	
May release flammable gases. Carbon oxides (Co	O, CO2). Nitrogen oxides.
SECTION 11: Toxicological informati	
11.1. Information on toxicological effects	· Oral Harmful if availaved Darmal Harmful in contact with akin Inholation Harmful if inholad
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98	
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l
LC50 inhalation rat (ppm)	7551 ppm - 8h
	500.000 mg/kg body weight
ATE CLP (dermal)	2000.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
ACETONITRILE UNLABELED (75-05-8)	
LD50 oral rat	2460 mg/kg
LD50 dermal rabbit	2000 mg/kg
LC50 inhalation rat (mg/l)	≥ 26.8 mg/l
LC50 inhalation rat (ppm)	7551 ppm - 8h
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	2000.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h 1.500 mg/l/4h
ATE CLP (dust, mist)	
Skin corrosion/irritation	: Skin rabbit
	No skin irritation
Serious eye damage/irritation	: Causes serious eye irritation.
, ,	rabbit
	Eyes
	Irritating to eyes
Respiratory or skin sensitization	: Did not cause sensitization on laboratory animals. Buehler Test - guinea pig - Did not cause sensitization on laboratory animals. (OECD 406 method)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: No evidence of carcinogenicity in animal studies (when indicated).
Reproductive toxicity	: Animal testing did not show any effects on fertility.
Specific target organ toxicity – single exposure	: The substance or mixture is not classified as specific target organ toxicant.
Specific target organ toxicity – repeated	: The substance or mixture is not classified as specific target organ toxicant.
exposure	
Aspiration hazard	: Not classified

ACETONITRILE CDLM-10692-S

### 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

Potential Adverse human health effects and symptoms	: Treat as cyanide poisoning. Always have on hand a cyanide first-aid kit, together with proper instructions. The onset of symptoms is generally delayed pending conversion to cyanide. Nausea, Vomiting, Diarrhea, Headache, Dizziness, Rash, Cyanosis, Excitement, Depression, Drowsiness, Impaired judgment, Lack of coordination, Stupor, Death. Lungs - Lung edema - Based on human evidence. Harmful if swallowed. Harmful in contact with skin. This informatic is based on our current knowledge and is intended to describe the product for the purposes o health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

SECTION 12: Ecological inform	ation
12.1. Toxicity	
	1-D, 98%) 100 UG/ML IN ACETONITRILE
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d
ACETONITRILE UNLABELED (75-05-8	
LC50 fish 1	1640 mg/l Pimephales promelas (fathead minnow) - 96h
EC50 Daphnia 1	3600 mg/l Daphnia magna (Water flea) - 48h
NOEC (chronic)	640 mg/l Daphnia magna (Water flea) - 14d
12.2. Persistence and degradability	
CIS-DBCA (1,CARBOXYL-13C2, 99%;	1-D, 98%) 100 UG/ML IN ACETONITRILE
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
ACETONITRILE UNLABELED (75-05-8)	
Persistence and degradability	Biodegradability Result: - Readily biodegradable.
2.3. Bioaccumulative potential	
CIS-DBCA (1,CARBOXYL-13C2, 99%;	1-D, 98%) 100 UG/ML IN ACETONITRILE
Log Pow	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
ACETONITRILE UNLABELED (75-05-8)	
Log Pow	-0.34
Bioaccumulative potential	No bioaccumulation is to be expected (log Pow <= 4).
12.4. Mobility in soil	
CIS-DBCA (1,CARBOXYL-13C2, 99%;	1-D, 98%) 100 UG/ML IN ACETONITRILE
Ecology - soil	Not expected to absorb on soil.
ACETONITRILE UNLABELED (75-05-8)	
Ecology - soil	Not expected to absorb on soil.
2.5. Results of PBT and vPvB asse	essment
No additional information available	
2.6. Other adverse effects	
Other adverse effects	: Avoid release to the environment. Disposal must be done according to official regulations. Ma cause long lasting harmful effects to aquatic life.
SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal. State, and loca

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

ACETONITRILE CDLM-10692-S

### 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

26, 2012 / Rules and Regulations	
<b>SECTION 14: Transport information</b>	
In accordance with ADR / RID / IMDG / IATA / A	NDN
14.1. UN number	
UN-No.(DOT)	: 1648
DOT NA no.	UN1648
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Acetonitrile
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquid
	FLAMMABLE LIQUE
Packing group (DOT)	: II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	<ul> <li>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. T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT RQ	: 5000 lbs
Marine pollutant	: No
14.3. Additional information	
Other information	: No supplementary information available.
Overland frener = *	
Overland transport	
Packing group (ADR)	: II : 2. Elammable liquid
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33 : F1
Classification code (ADR) Hazard labels (ADR)	: 3 - Flammable liquids
Orange plates	: 33
	1648

Tunnel restriction code (ADR) Limited quantities (ADR) EAC Excepted quantities (ADR) : D/E

11

: •2YE

: E2

ACETONITRILE CDLM-10692-S

#### 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	: B - (i) The material may be stowed "on deck" or "under deck" 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; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
MFAG-No	: 127
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids

14.4.	Environmental hazards	
Other in	formation	: No supplementary information available.
14.5.	Special precautions for user	
14.6.	Transport in bulk according to Ann	nex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information			
15.1. US Federal regulations			
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of 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		
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) (63597-73-9 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.		
ACETONITRILE UNLABELED (75-05-8)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of 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		

#### 15.2. International regulations

C	AN	D	A
		_	

CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE
Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) 100 UG/ML IN ACETONITRILE()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive	No	

ACETONITRILE CDLM-10692-S

#### 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

CIS-DBCA (1,CARBOX)	<b>YL-13C2, 99%; 1-D,</b> 98%) 100 l	JG/ML IN ACETONITRILE()			
Toxicity - Female					
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			
CIS-DBCA (1,CARBOX)	YL-13C2, 99%; 1-D, 98%) (6359	97-73-9 (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		
ACETONITRILE UNLAB	BELED (75-05-8)				
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		
CIS-DBCA (1,CARBOXYL-13C2, 99%; 1-D, 98%) (63597-73-9 (Unlabeled))					
State or local regulation	ns				
U.S Pennsylvania - RT U.S New Jersey - Righ	ΓΚ (Right to Know) List ht to Know Hazardous Substance	e List			
ACETONITRILE UNLABELED (75-05-8)					
State or local regulations					
U.S Massachusetts - R U.S New Jersey - Righ U.S Pennsylvania - RT	nt to Know Hazardous Substance	e List			
SECTION 16: Otho					

#### 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:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4		
Eye Irrit. 2	Serious eye damage/eye irritation Category 2		
Flam. Liq. 2	Flammable liquids Category 2		
H225	Highly flammable liquid and vapour		
H302	Harmful if swallowed		
H312	Harmful in contact with skin		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
R11	Highly flammable		
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed		
R36	Irritating to eyes		
F	Highly flammable		
Xi	Irritant		
Xn	Harmful		

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.	2
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

0

ACETONITRILE CDLM-10692-S

### 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

#### **Hazard Rating**

Flammability

Health

Physical

: 2 Moderate Hazard - Temporary or minor injury may occur

- : 3 Serious Hazard
  - : 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