

CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL

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: 18/12/2019 Revision date: 09/01/2020 Supersedes: 18/12/2019 Version: 2.0 DLM-2607-C

SECTION 1: Identification of the	e substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixtures	
Product name	: CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL	
Product code	: DLM-2607-C	
1.2. Relevant identified uses of the	e 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 s	safety data sheet	
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA USA: 1-800-322-1174 Int: 1-978-749-80		
cilsales@isotope.com www.isotope.con		
Emergency telephone number Emergency numbers:	r	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)		
SECTION 2: Hazards identificat	ion	
2.1. Classification of the substance	e or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP] Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319 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]		

F; R11 Xi; R36/37/38 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements	
Labeling according to Regulation (EC) N	o. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLD)	GHS02 GHS07
Signal word (CLP)	
Hazardous ingredients	: ETHANOL UNLABELED
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapor H315 - Causes skin irritation
	H319 - Causes serious eye irritation
	H335 - May cause respiratory irritation
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. N
	smoking.
	P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical/ventilating/lighting equipment
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands, forearms and face thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS-US labeling	
Hazard pictograms (GHS-US)	
	$\mathbf{\underline{O}}$
	GHS02 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H225 - Highly flammable liquid and vapor
	H315 - Causes skin irritation
	H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	: P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.
recationary statements (Cric CC)	P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment
	P241 - Use explosion-proof electrical/ventilating/lighting equipment
	P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	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 conta
	lenses, if present and easy to do. Continue rinsing
	P312 - Call a poison center or doctor if you feel unwell
	P321 - Specific treatment (see supplemental first aid instruction on this label)
	P332+P313 - If skin irritation occurs: Get medical advice/attention. 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 media other than water 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

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

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2.3. Other hazards

PBT: not yet assessed

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

		-	
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ETHANOL UNLABELED	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	99.987	F; R11 Xi; R36/37/38
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%)	(CAS-No.) 92543-08-3 (EC-No.) 200-353-2 (Unlabeled)	0.013	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHANOL UNLABELED	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%)	(CAS-No.) 92543-08-3 (EC-No.) 200-353-2 (Unlabeled)	0.013	Not classified
Name	Product identifier	%	GHS-US classification
ETHANOL UNLABELED	(CAS-No.) 64-17-5	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%)	(CAS-No.) 92543-08-3	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 measure	98
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
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/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate me	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measur	es
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	e substance or mixture
Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.

Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

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5.3. Advice for firefighters	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e 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. No flames, no sparks. Eliminate all sources of ignition. 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	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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 conta	inment and cleaning up
For containment	Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Vacuum with an equipment that avoids ignition risk. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.
Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapor and mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing vapors, spray, mist, gas

 Hygiene measures
 : Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.

 7.2.
 Conditions for safe storage, including any incompatibilities

 Technical measures
 : Keep container tightly closed in a cool, dry and well-ventilated place. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

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

 Incompatible materials
 : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000.00000000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³

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USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA NIOSH	Remark (NIOSH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA OSHA	Remark (OSHA)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans. The value in mg/m3 is approximate.
ETHANOL UNLABELED (64-	17-5)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000.00000000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA NIOSH	Remark (NIOSH)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
USA OSHA	Remark (OSHA)	Upper Respiratory Tract irritation. Confirmed animal carcinogen with unknown relevance to humans. The value in mg/m3 is approximate.

CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1900 mg/m³	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
DNEL/DMEL (additional information)		
Additional information	DNEL - Workers - Ingestion - Long-term systemic effects - 343 mg/kg BW/d	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.63 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	
8.2. 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.

Personal protective equipment

Materials for protective clothing

Environmental exposure controls

Skin and body protection

Respiratory protection

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- : Wear suitable protective clothing and gloves.
- : Wear suitable protective clothing and gloves.
- : Wear eye protection. Chemical goggles or face shield with safety glasses.
- : Wear suitable protective clothing, gloves and eye/face protection.
- : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
- : Avoid release to the environment.

Hand protection

Eye protection

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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 compo	onent of this mixture.	
Physical state	: Liquid	
Appearance	: Liquid, Clear	
Molecular mass	: 46.07 g/mol	
Color	: Colorless	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: -114 °C (-173 °F)	
Freezing point	: No data available	
Boiling point	: 78 °C (172 °F)	
Flash point	: 14 °C (57.2 °F) - closed cup	
Auto-ignition temperature	: 363 °C (685.4 °F)	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Highly flammable liquid and vapor	
Vapor pressure	: 59.5 hPa (44.6 mmHg) at 20 °C (68 °F)	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 0.789 g/ml at 25 °C (77 °F)	
Solubility	: Water: completely soluble	
Log Pow	: -0.349 at 24 °C (75 °F)	
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	: 3.3 - 19 %	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.		
10.2. Chemical stability		
Stable if stored under recommended conditions.		
10.3. Possibility of hazardous reactions		

Hygroscopic.

10.4. **Conditions to avoid**

Heat. Open flame. Direct sunlight. Sparks.

Incompatible materials 10.5.

Alkali metals. ammonia. Oxidizing agent. Peroxides.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity :	Not classified		
CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL			
LD50 oral rat	10470 mg/kg		
LD50 dermal rat	15800 mg/kg		
LC50 inhalation rat (mg/l)	30000 mg/l		

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CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL		
ATE CLP (oral)	10470.000 mg/kg body weight	
ATE CLP (dermal)	15800.000 mg/kg body weight	
ATE CLP (vapors)	30000.000 mg/l/4h	
ATE CLP (dust, mist)	30000.000 mg/l/4h	
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%) (92543-08-3)		
LD50 dermal rat	> 2000 mg/kg Rat - male and female (OECD Test Guideline 402)	
ETHANOL UNLABELED (64-17-5)		
LD50 oral rat	10470 mg/kg	
LD50 dermal rat	15800 mg/kg	
LC50 inhalation rat (mg/l)	30000 mg/l	
ATE CLP (oral)	10470.000 mg/kg body weight	
ATE CLP (dermal)	15800.000 mg/kg body weight	
ATE CLP (vapors)	30000.000 mg/l/4h	
ATE CLP (dust, mist)	30000.000 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
	Skin - Rabbit - No skin irritation - (OECD 404 method)	
Serious eye damage/irritation	: Causes serious eye irritation.	
	Eyes - Rabbit - Moderate eye irritation - (OECD 404 method)	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Carcinogenicity - Mouse - Oral - Tumorigenic: Equivical tumorigenic agent by RTECS criteria. Liver: Tumors - Blood: Lymphomas including Hodgkin's disease.	
Reproductive toxicity	: Reproductive toxicity - Oral - Human - Female - Effects on Newborn: Other neonatal measures or effects.	
	Reproductive toxicity Oral - Human - Female - Effects on Newborn: Apgar score (human only). Effects on Newborn: Drug dependence.	
Specific target organ toxicity – single exposure	: May cause respiratory irritation.	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: CNS depression. Narcosis. Risk of serious damage. to. heart. 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. Stomach - Irregularities - Based on Human Evidence.	
Symptoms/effects after inhalation	: May be harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	: Causes skin irritation.	
Symptoms/effects after eye contact	: Causes serious eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	
	-	

SE	CTION 12: Ecological information	
12.1	Toxicity	
Ecol	ogy - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
СН	OLESTEROL 97% CHEMICAL PURITY (2,	2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL
	50 fich 1	14200 mg/l Pimenhales prometas (fathead minnow) - 96 h

LC50 fish 1	14200 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	5012 mg/l Ceriodaphnia dubia (Water flea) - 48 h	
EC50 other aquatic organisms 1	275 mg/l Chlorella vulgaris (Fresh water algae) - 72 h (OECD method 201)	
NOEC (acute)	9.6 mg/l Daphnia magna (Water flea) - 9 d	
ETHANOL UNLABELED (64-17-5)		
LC50 fish 1	14200 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	5012 mg/l Ceriodaphnia dubia (Water flea) - 48 h	
EC50 other aquatic organisms 1	275 mg/l Chlorella vulgaris (Fresh water algae) - 72 h (OECD method 201)	
NOEC (acute) 9.6 mg/l Daphnia magna (Water flea) - 9 d		

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12.2. Persistence and degradability				
CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL				
Persistence and degradability Readily biodegradable.				
BOD (% of ThOD)	95 % ThOD			
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%) (92				
Biodegradation	74 % - Inherently biodegradable. aerobic - Exposure time 28 d			
ETHANOL UNLABELED (64-17-5)				
Persistence and degradability	Readily biodegradable.			
BOD (% of ThOD)	95 % ThOD			
I2.3. Bioaccumulative potential				
	,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL			
Log Pow	-0.349 at 24 °C (75 °F)			
Bioaccumulative potential	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.			
ETHANOL UNLABELED (64-17-5)				
Log Pow	-0.349 at 24 °C (75 °F)			
Bioaccumulative potential	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.			
2.4. Mobility in soil				
No additional information available				
	- set			
2.5. Results of PBT and vPvB assessme				
	2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL			
PBT: not yet assessed				
ETHANOL UNLABELED (64-17-5)				
PBT: not yet assessed				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal consideration	hs			
3.1. Waste treatment methods				
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.			
dditional information	: Handle empty containers with care because residual vapors are flammable.			
Cology - waste materials	: Dispose of as unused product.			
SECTION 14: Transport information				
n accordance with ADR / RID / IMDG / IATA / AI	DN			
4.1. UN number				
JN-No.(DOT)	: 1170			
DOT NA no.	UN1170			
14.2. UN proper shipping name				
Proper Shipping Name (DOT)	: Ethanol			
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120			
Hazard labels (DOT)	: 3 - Flammable liquid			

Packing group (DOT)

: II - Medium Danger

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	 transported as materials in Packing Group II. Alcoholic beverages containing more than 24 percent but not more than 70 percent alcohol by volume must be transported as materials in Packing Group III. 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. T4 - 2.65 178.274(d)(2) Normal
OT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
OT Packaging Non Bulk (49 CFR 173.xxx)	: 202
OT Packaging Bulk (49 CFR 173.xxx)	: 242
4.3. Additional information	
ther information	: No supplementary information available.
overland transport	
azard identification number (Kemler No.)	: 33
orange plates	33 1170
unnel restriction code (ADR)	: D/E
imited quantities (ADR)	11
AC	: •2YE
xcepted quantities (ADR)	: E2
ransport by sea	
OT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
IFAG-No	: 127
. ir transport IOT Quantity Limitations Passenger aircraft/ra 49 CFR 173.27)	il : 5L
OT Quantity Limitations Cargo aircraft only (4 FR 175.75)	9 : 60 L
ivil Aeronautics Law	: Flammable liquids
4.4. Environmental hazards	
other information	: No supplementary information available.
4.5. Special precautions for user	
4.6. Transport in bulk according to Ani lot applicable	nex II of MARPOL 73/78 and the IBC Code

15.1	US	Federal	regulati	ons

15.1. US rederal regulations		
CHOLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%) (92543-08-3)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
00/01/2020	EN (English LIS)	0/11

UG/ML IN ETHANOL DLM-2607-C

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

CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%) (92543-08-3)		
SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313		
ETHANOL UNLABELED (64-17-5)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313	

15.2. International regulations

CANADA

СНС	DLESTEROL 97% CHEMICAL PURITY (2,2,3,4,4,6-D6, 97-98%) 100 UG/ML IN ETHANOL	
Liste	Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

15.3. US State regulations

15.5. 05 State regulation	///5				
CHOLESTEROL 97% C	HEMICAL PURITY (2,2,3,4,4,6	-D6, 97-98%) 100 UG/ML IN E	THANOL()		
U.S California - Proposition 65 - Carcinogens List		No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Propos Toxicity - Female	sition 65 - Reproductive	No			
U.S California - Propos Toxicity - Male	sition 65 - Reproductive	No			
State or local regulations		U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List			
CHOLESTEROL (2,2,3,4	4,4,6-D6, 97-98%) (92543-08-3				
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		
ETHANOL UNLABELED	D (64-17-5)	•	•	•	
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		
CHOLESTEROL (2,2,3,4,4,6-D6, 97-98%) (92543-08-3)					
State or local regulation	ns				
U.S Pennsylvania - RT U.S New Jersey - Righ	K (Right to Know) List It to Know Hazardous Substanc	e List			
ETHANOL UNLABELE	D (64-17-5)				
State or local regulations					
U.S Massachusetts - R U.S Pennsylvania - RT U.S New Jersey - Righ	tight To Know List 'K (Right to Know) List t to Know Hazardous Substanc	e List			
SECTION 16: Othe	r information				
Other information		s product is not radioactive. Th	e data given for this product are	e those of the corresponding	
				in the conceptioning	

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.

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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

Full text of R-, H- and EUH-phrases:				
	Eye Irrit. 2	rrit. 2 Serious eye damage/eye irritation Category 2		
Flam. Liq. 2 Flammable liquids Category 2		Flammable liquids Category 2		
	Skin Irrit. 2	Skin corrosion/irritation Category 2		
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
	H225	Highly flammable liquid and vapor		
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	H335	May cause respiratory irritation		
	R11	Highly flammable		
	R36/37/38	Irritating to eyes, respiratory system and skin		
	F	Highly flammable		
	Xi	Irritant		

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.
NFPA reactivity	0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard

: 0 Minimal Hazard

CIL Mixture SDS

Physical

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