# revvity

### Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

#### Reviewed on 05/18/2023

### **1** Identification

- · Product identifier
- · Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-
- · Product number: NET859000MC, NET859001MC, NET859250UC
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Revvity, Inc 549 Albany Street Boston, MA 02118

• Information department: US Technical Support 800-762-4000

*Emergency telephone number: If inside USA, call CHEMTREC at 1-800-424-9300 If outside USA, call CHEMTREC at 1-703-527-3887* 

### 2 Hazard(s) identification

• Classification of the substance or mixture	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Skin Irritation 2	H315 Causes skin irritation.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1 Additional information: For the wording of the listed	H304 May be fatal if swallowed and enters airways. H phrases refer to section 16.
GHS02 GHS07 GHS08	
Signal word Danger	
• <b>Signal word</b> Danger • <b>Hazard-determining components of labeling:</b> toluene	
Signal word Danger Hazard-determining components of labeling: toluene Hazard statements Highly flammable liquid and vapor.	
Signal word Danger Hazard-determining components of labeling: toluene Hazard statements Highly flammable liquid and vapor. Causes skin irritation.	
Signal word Danger Hazard-determining components of labeling: toluene Hazard statements Highly flammable liquid and vapor.	

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

• **Precautionary statements** If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting.

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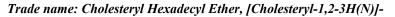
<sup>-</sup> US

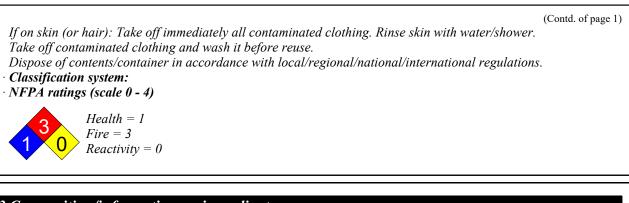
75-100%

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### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:

108-88-3 toluene

#### 4 First-aid measures

- · Description of first aid measures
- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

#### 6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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<ul> <li>Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.</li> <li>Reference to other sections</li> </ul>	(Contd. of page 2)
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. • Protective Action Criteria for Chemicals • PAC-1:	
108-88-3 toluene	67 ppm
• PAC-2:         108-88-3       toluene         • PAC-3:         108-88-3       toluene	560 ppm 3700* ppm

# 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Storage class: 3
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

108-88-3 toluene (75-100%)

- PEL Long-term value: 200 ppm
  - Ceiling limit value: 300; 500\* ppm \*10-min peak per 8-hr shift

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Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-

	(Contd. of page 3
REL Sho	prt-term value: 560 mg/m <sup>3</sup> , 150 ppm
	ng-term value: $375 \text{ mg/m}^3$ , $100 \text{ ppm}$
	ng-term value: 20 ppm
	I, OTO, A4
Ingredie	nts with biological limit values:
108-88-3	3 toluene (75-100%)
BEI 0.02	
	dium: blood
Tim	e: prior to last shift of workweek
Par	ameter: Toluene
0.0	3 mg/L
	dium: urine
	e: end of shift
	ameter: Toluene
	mg/g creatinine
	dium: urine
	e: end of shift
Par	ameter: o-Cresol with hydrolysis (background)
Personal General Keep aw Immedia Wash ha Store pro Avoid co Avoid co Respirat In case o SCBA. Suitable	e controls I protective equipment: protective and hygienic measures: ay from food and beverages. tely remove all soiled and contaminated clothing. nds before breaks and at the end of work. objective clothing separately. ntact with the skin. ntact with the eyes and skin. ory protection: of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use respiratory protective device recommended. on of hands:
The glov	Protective gloves e material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection	to fthe glove material on consideration of the penetration times, rates of diffusion and the degradation of gloves
varies fro of the glo	ction of the suitable gloves does not only depend on the material, but also on further marks of quality and om manufacturer to manufacturer. As the product is a preparation of several substances, the resistance ove material can not be calculated in advance and has therefore to be checked prior to the application. <b>ion time of glove material</b>
The exac	ct break through time has to be found out by the manufacturer of the protective gloves and has to be
observed	
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Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-

(Contd. of page 4) · Eye protection: Tightly sealed goggles 9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Fluid Color: According to product specification Odor: Characteristic · Odor threshold: Not determined. · pH-value: N/A· Change in condition Melting point/Melting range: -95 °C (-139 °F) **Boiling point/Boiling range:** 110 °C (230 °F) 4 °C (39.2 °F) · Flash point: · Flammability (solid, gaseous): Highly flammable. 535 °C (995 °F) • Auto igniting: · Decomposition temperature: Not determined. Product is not selfigniting. · Ignition temperature: Product is not explosive. However, formation of explosive air/vapor • Danger of explosion: mixtures are possible. · Explosion limits: 1.2 Vol % Lower: Upper: 7 Vol % • Vapor pressure at 20 °C (68 °F): 29 hPa (21.8 mm Hg) • Vapor pressure at 50 °C (122 °F): 124 hPa (93 mm Hg) • Density at 20 °C (68 °F): 0.86991 g/cm<sup>3</sup> (7.2594 lbs/gal) · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water at 15 °C (59 °F):  $0.5 \, g/l$ · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not determined. Not determined. Kinematic: · Solvent content: 100.0 % **Organic solvents:** 99.99 % **VOC** content:

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Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-

**Other information** 

No further relevant information available.

# **10** Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

· NTP (National Toxicology Program)

None of the ingredients is listed.

**OSHA-Ca** (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects: N/A
- Other information: N/A
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

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# 13 Disposal considerations

#### · Waste treatment methods

#### · Recommendation:

*Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.* 

#### · Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	UN1294
UN proper shipping name ADR IMDG, IATA	1294 TOLUENE mixture TOLUENE mixture
Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category	Warning: Flammable liquids : 33 F-E,S-D B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG Limited quantities (LQ)	1L

ACTIVE

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Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-

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• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1294 TOLUENE MIXTURE, 3, II

#### 15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

108-88-3 toluene

• TSCA (Toxic Substances Control Act):

108-88-3 toluene

· Hazardous Air Pollutants

108-88-3 toluene

· Proposition 65

• Chemicals known to cause cancer:

Radionuclide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

· Carcinogenic categories

· EPA (Environmental Protection Agency)

108-88-3 toluene

• TLV (Threshold Limit Value)

108-88-3 toluene

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information provided in this safety data sheet is based on our current knowledge, and is believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be regarded as a warranty or specification of quality. All materials may present unknown hazards and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist. Revvity, Inc. cannot be held liable for any damage resulting from handling or contact with the product.

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### Trade name: Cholesteryl Hexadecyl Ether, [Cholesteryl-1,2-3H(N)]-

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Contact:	
Date of preparation / last revision 02/13/2024	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internation	nal
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
BEI: Biological Exposure Limit	
Flammable Liquids 2: Flammable liquids – Category 2	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2	
Aspiration Hazard 1: Aspiration hazard – Category 1	
	- US -