## revvity

### Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

Reviewed on 05/18/2023

### 1 Identification

- · Product identifier
- · Trade name: TRIIDOTHYRONINE,L-3,5,3`-[1251]-
- · Product number:
- NEX110000MC, NEX110100UC, NEX110X100UC, NEX110H000MC, NEX110250UC, NEX110500UC · 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

Classification of the substance or mixture	
Flammable Liquids 3	H226 Flammable liquid and vapor.
Eye Damage 1	H318 Causes serious eye damage.
Specific Target Organ Toxicity - Single Exposur	re 2 H371 May cause damage to the central nervous system an the visual organs.
Specific Target Organ Toxicity - Single Exposur Additional information: For the wording of the	
Label elements GHS label elements The product is classified an Hazard pictograms	nd labeled according to the Globally Harmonized System (GHS).
GHS02 GHS05 GHS08 GHS07	
Signal word Danger	
Hazard-determining components of labeling: propan-1-ol	
methanol	
Hazard statements	
Flammable liquid and vapor. Causes serious eye damage.	
<i>Causes serious eye admage.</i> May cause damage to the central nervous system	n and the visual organs.
May cause drowsiness or dizziness.	· ····· ···· ···· ····· ········
Precautionary statements	
	rfaces No smoking.
Keep away from heat/sparks/open flames/hot su	
Keep away from heat/sparks/open flames/hot su Use explosion-proof electrical/ventilating/lightir	ng/equipment.
Keep away from heat/sparks/open flames/hot su Use explosion-proof electrical/ventilating/lightir If on skin (or hair): Take off immediately all con	ng/equipment. ntaminated clothing. Rinse skin with water/shower.
Keep away from heat/sparks/open flames/hot su Use explosion-proof electrical/ventilating/lightin If on skin (or hair): Take off immediately all con If in eyes: Rinse cautiously with water for sev	ng/equipment. ntaminated clothing. Rinse skin with water/shower.
Keep away from heat/sparks/open flames/hot su Use explosion-proof electrical/ventilating/lightir If on skin (or hair): Take off immediately all con	ng/equipment.

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25-50%

2.5-10%

Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3Fire = 3 Reactivity = 0

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:
- 71-23-8 propan-1-ol

67-56-1 methanol

### 4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · 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.* • *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:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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	alizing agent.	
	contaminated material as waste according to section 13.	
	dequate ventilation.	
	e to other sections	
	on 7 for information on safe handling.	
	on 8 for information on personal protection equipment.	
	on 13 for disposal information. e Action Criteria for Chemicals	
	e Action Crueriu for Chemicuis	
• PAC-1:	1	
71-23-8	propan-1-ol	250 ppm
67-56-1	methanol	530 ppm
127-09-3	sodium acetate	$11 \text{ mg/m}^3$
· PAC-2:		
71-23-8	propan-1-ol	670 ppm
67-56-1	methanol	2,100 ppm
127-09-3	sodium acetate	120 mg/m <sup>3</sup>
· PAC-3:		
71-23-8	propan-1-ol	4000* ppm
67-56-1	methanol	7200* ppm
127-09-3	sodium acetate	$700 mg/m^3$

### 7 Handling and storage

#### · Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

• 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.

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· Control parameters
· Components with limit values that require monitoring at the workplace:
71-23-8 propan-1-ol (25-50%)
PEL Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
REL Short-term value: 625 mg/m <sup>3</sup> , 250 ppm
Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
Skin
TLV Long-term value: 100 ppm
A4
67-56-1 methanol (2.5-10%)
PEL Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
REL Short-term value: 325 mg/m <sup>3</sup> , 250 ppm
Long-term value: 260 mg/m <sup>3</sup> , 200 ppm
Skin
TLV Short-term value: 250 ppm
Long-term value: 200 ppm
Skin; BEI
· Ingredients with biological limit values:
67-56-1 methanol (2.5-10%)
BEI 15 mg/L
Medium: urine
Time: end of shift Baugmeter: Methanol (haskground nonspecific)
Parameter: Methanol (background, nonspecific)
· Exposure controls
Personal protective equipment:
· General protective and hygienic measures:
Keep away from food and beverages. Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· Respiratory protection:
In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use
SCBA.
Suitable respiratory protective device recommended. • <b>Protection of hands:</b>
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
• <b>Penetration time of glove material</b>
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
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• Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

General Information	
Appearance:	
Form:	Fluid
Color: Odor:	According to product specification Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	96 °C (204.8 °F)
Flash point:	23 °C (73.4 °F)
Flammability (solid, gaseous):	Flammable.
Auto igniting:	360 °C (680 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	2.1 Vol %
Upper:	13.5 Vol %
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	48.0 %
Water:	51.8 %
VOC content:	48.05 %

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Solids content:

0.1 %

• 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:

· LD/LC50 values that are relevant for classification:

71-23-8 propan-1-ol

*Oral LD50 1,870 mg/kg (rat)* 

Dermal LD50 5,040 mg/kg (rabbit)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Strong irritant with the danger of severe eye injury.

• 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)

None of the ingredients is listed.

· 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

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· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• Other adverse effects No further relevant information available.

### 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.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (n-PROPANOL (PROP)
IMDG, IATA	ALCOHOL, NORMAL), METHANOL) FLAMMABLE LIQUID, N.O.S. (n-PROPANOL (PROPY
	ALCOHOL, NORMAL), METHANOL)
Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	111
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code	
EMS Number:	F-E, <u>S-E</u> A
Stowage Category	A
Transport in bulk according to Annex II of	Net overlie et le
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

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(Conto	
· ADR	
· Excepted quantities (EQ)	Code: E1
,,	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
• Excepted quantities $(\widetilde{EQ})$	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (N-PROPANO.
	(PROPYL ALCOHOL, NORMAL), METHANOL), 3, III

### 15 Regulatory information

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

	5 (extremely hazardous substances): pingredients is listed.	
v	<i>3 (Specific toxic chemical listings):</i>	
67-56-1 m		
· TSCA (Tox	cic Substances Control Act):	
7732-18-5		ACTIV
71-23-8	propan-1-ol	ACTIV
	methanol	ACTIV
127-09-3	sodium acetate	ACTIV
Hazardous	Air Pollutants	
67-56-1 m	ethanol	
Proposition	1 65	
Chemicals	known to cause cancer:	
Radionucli	de	
<b>Chemicals</b>	known to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
<b>Chemicals</b>	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
• Chemicals	known to cause developmental toxicity:	
67-56-1 m	-	
· Carcinoger	nic categories	
· EPA (Envi	ronmental Protection Agency)	
None of the	ingredients is listed.	
TLV (Thre.	shold Limit Value)	
71-23-8 pr	opan-1-ol	A
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### · 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.

· 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 International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

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) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

*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 3: Flammable liquids – Category 3

*Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2* 

rgan Toxicity - Single Exposure 2. Specific largel organ loxicity (single exposure) – Calegory 2