# revvity

# Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

Reviewed on 05/18/2023

## 1 Identification

- · Product identifier
- · Trade name: (-)-Cyanopindolol, [1251]-iodo-,
- · Product number: NEX189000MC, NEX189100UC
- · 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. Acute Toxicity - Inhalation 4 H332 Harmful if inhaled. Skin Irritation 2 H315 Causes skin irritation. Eye Damage 1 H318 Causes serious eye damage. Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects. Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to the central nervous system and the visual organs. 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.

• Additional information: For the wording of the listed H phrases refer to section 16.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

Hazard-determining components of labeling: propan-1-ol methanol phenol
Hazard statements Highly flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Causes serious eye damage. Suspected of causing genetic defects.

(Contd. on page 2)

US

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 1)
May cause damage to the central nervous system and the visual organs.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 3
Fire = $3$
3 0 Reactivity = 0

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:	
71-23-8	propan-1-ol	50-75%
67-56-1	methanol	2.5-10%
108-95-2	phenol	1-2.5%

# 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:*
- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- In case of unconsciousness place patient stably in side position for transportation.
- · 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.

(Contd. on page 3)

<sup>–</sup> US

(Contd. of page 2)

#### Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

· 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. • <b>Environmental precautions:</b> 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, so	awdust)
Use neutralizing agent.	and disty.
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· Reference to other sections	
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:	
71-23-8 propan-1-ol	250 ppm
67-56-1 methanol	530 ppm
108-95-2 phenol	15 ppm
64-19-7 acetic acid	5 ppm
• PAC-2:	
71-23-8 propan-1-ol	670 ppm
67-56-1 methanol	2,100 ppm
108-95-2 phenol	23 ppm
64-19-7 acetic acid	35 ppm
• PAC-3:	
71-23-8 propan-1-ol	4000* ppm
67-56-1 methanol	7200* ppm
108-95-2 phenol	200 ppm
64-19-7 acetic acid	250 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.

US

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 3)

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:	
71-23-8 propan-1-ol (50-75%)	
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	
108-95-2 phenol (1-2.5%)	
PEL Long-term value: 19 mg/m³, 5 ppm Skin	
REL Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit value: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin	
TLV Long-term value: 5 ppm Skin; BEI, A4	
· Ingredients with biological limit values:	
67-56-1 methanol (2.5-10%)	
BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)	
	(Contd. on page 5)
	US

(Contd. of page 4)

#### Safety Data Sheet acc. to OSHA HCS

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

#### 108-95-2 phenol (1-2.5%)

BEI 250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)

• *Additional information:* The lists that were valid during the creation were used as basis.

#### · 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.
- Store protective clothing separately.
- Avoid contact with the skin.
- 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.
- Protection of hands:



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.

- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties

Information on basic physic General Information		
Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Characteristic	
<b>Odor threshold:</b>	Not determined.	
pH-value:	N/A	

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

	(Contd. of page 5)
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 64 °C (147.2 °F)
· Flash point:	11 °C (51.8 °F)
· Flammability (solid, gaseous):	Highly 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/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	2.1 Vol % 13.5 Vol %
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate	0.89234 g/cm³ (7.44658 lbs/gal) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: Water: VOC content:	57.2 % 42.8 % 57.16 %
Solids content:	2.0 %
• 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.

(Contd. on page 7)

US

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 6)

3

#### 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: Irritant to skin and mucous membranes.

• 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: Harmful* 

Irritant

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-95-2 phenol

#### · 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.

#### 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.* 

(Contd. on page 8)

<sup>-</sup> US

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 7)

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

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S. (n-PROPANOL (PROPY
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	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids
EMS Number:	F-E,S-E
Stowage Category	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	C. J., F2
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 50 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 8)

• UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (N-PROPANOL (PROPYL ALCOHOL, NORMAL), METHANOL), 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):	
108-95-2 phenol	
• Section 313 (Specific toxic chemical listings): 67-56-1 methanol	
108-95-2 phenol	
• TSCA (Toxic Substances Control Act):	
71-23-8 propan-1-ol	ACTIVE
7732-18-5 Water	ACTIVE
67-56-1 methanol	ACTIVE
108-95-2 phenol 64-19-7 acetic acid	ACTIVE
	ACTIVE
Hazardous Air Pollutants	
67-56-1 methanol	
108-95-2 phenol	
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:	
67-56-1 methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
108-95-2 phenol	D, I
· TLV (Threshold Limit Value)	
71-23-8 propan-1-ol	A4
108-95-2 phenol	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	<b>I</b>
None of the ingredients is listed.	
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
	T

(Contd. on page 10)

US

Printing date 02/13/2024

Reviewed on 05/18/2023

Trade name: (-)-Cyanopindolol, [1251]-iodo-,

(Contd. of page 9)

	he information provided in this safety data sheet is based on our current knowledge,
	nd is believed to be correct at the date of publication. However, no representation is made
	oncerning its accuracy and completeness. It is intended as guidance only, and is not to be regarded as a
W	arranty or specification of quality. All materials may present unknown hazards and should be used with
са	nution. Although certain hazards are described, we cannot guarantee that these are the only hazards that exist
Re	evvity, Inc. cannot be held liable for any damage resulting from handling or contact with the product.
· Ca	ontact:
·D	ate of preparation / last revision 02/13/2024
	bbreviations and acronyms:
	DR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internatio
	irriage of Dangerous Goods by Road)
	IDG: International Maritime Code for Dangerous Goods
	DT: US Department of Transportation
	TA: International Jir Transport Association
	NECS: European Inventory of Existing Commercial Chemical Substances
	JNCS: European List of Notified Chemical Substances
	AS: Chemical Abstracts Service (division of the American Chemical Society)
NF	FPA: National Fire Protection Association (USA)
VC	DC: Volatile Organic Compounds (USA, EU)
	C50: Lethal concentration, 50 percent
	D50: Lethal dose, 50 percent
	3T: Persistent, Bioaccumulative and Toxic
	vB: very Persistent and very Bioaccumulative
	OSH: National Institute for Occupational Safety
	SHA: Occupational Safety & Health
	V: Threshold Limit Value
	EL: Permissible Exposure Limit
	EL: Recommended Exposure Limit
	EI: Biological Exposure Limit
	ammable Liquids 2: Flammable liquids – Category 2 anto Training – July alation 4: Acuto tonicity – Category 4
	rute Toxicity - Inhalation 4: Acute toxicity – Category 4 in Irritation 2: Skin corrosion/irritation – Category 2
	e Damage 1: Serious eve damage/eve irritation – Category 2
	er Damage 1. serious eye damagereye irritation – Category 1 erm Cell Mutagenicity 2: Germ cell mutagenicity – Category 2
Ge	ecific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2