

Safety Data Sheet 4H561004 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/02/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name		rovu piporidino.	
CAS No	: trans-4-Amino-1-Boc-3-hyd	oxypiperidine	
	: 443955-98-4		
Product code	: 4H56-1-004		
Formula	: C10H20N2O3		
Synonyms		no-3-hydroxypiperidine-1-carboxylate	
Other means of identification	: MFCD18425632		
1.2. Relevant identified uses of the sub		vised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and dev	elopment	
1.3. Details of the supplier of the safety	y data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	<u>om</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Compa	ny - Account 10069)	
SECTION 2: Hazard(s) identification	n		
2.1. Classification of the substance or	mixture		
Classification (GHS-US)			
Acute Tox. 4 (Dermal)H312 - Harmful inAcute Tox. 4 (Inhalation)H332 - Harmful if iSkin Irrit. 2H315 - Causes skiEye Dam. 1H318 - Causes seSTOT SE 3H335 - May causeFull text of H-phrases: see section 16	nhaled in irritation		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: GHS05 GHS06	GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H301 - Toxic if swallowed H312+H332 - Harmful in c H315 - Causes skin irritatio H318 - Causes serious eye H335 - May cause respirato	า damage	
Precautionary statements (GHS-US)	P271 - Use only outdoors of P280 - Wear protective glov P301+P310 - If swallowed: P302+P352 - If on skin: Wa P304+P340 - If inhaled: Re P305+P351+P338 - If in ey lenses, if present and easy	y after handling smoke when using this product r in a well-ventilated area res/protective clothing/eye protection/face protectio Immediately call a poison center/doctor/ sh with plenty of soap and water move person to fresh air and keep comfortable for es: Rinse cautiously with water for several minutes.	breathing
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	 P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US	;)			
Not applicable				
SECTION 3: Composition/informa	tion on in	gredients		
3.1. Substance	. Mana			
Substance type	: IVIONC	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
trans-4-Amino-1-Boc-3-hydroxypiperidine (Main constituent)		(CAS No) 443955-98-4	<= 100	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable SECTION 4: First aid measures				
4.1. Description of first aid measures First-aid measures general		se of accident or if you feel unwe	ll sook modical advis	a immediately (show the label
r instalu measures general		e possible). Move the affected p		
First-aid measures after inhalation		ove person to fresh air and keep ration. Get immediate medical a		hing. If not breathing, give artificial
First-aid measures after skin contact		with plenty of soap and water.		
First-aid measures after eye contact	prese	ent and easy to do. Continue rins	sing. Get immediate m	
First-aid measures after ingestion		OT induce vomiting. Never give h out with water. Get immediate		
4.2. Most important symptoms and e				
Symptoms/injuries		nost important known symptoms and/or in section 11.	and effects are desci	ibed in the labelling (see section
4.3. Indication of any immediate med	ical attentio	n and special treatment neede	ed	
Treat symptomatically.				
SECTION 5: Firefighting measures	S			
5.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxic opriate for surrounding fire.	e. Dry powder. Water	spray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
No additional information available				
5.3. Advice for firefighters				
Firefighting instructions		se of fire: Evacuate area.		
Protection during firefighting		gas tight chemically protective or ratus. For further information ref		n with self contained breathing sure controls/personal protection".
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipment	and emergency procedures		
General measures	: Evac	uate unnecessary personnel. En	sure adequate air ven	tilation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures	: Only	qualified personnel equipped wi	th suitable protective e	equipment may intervene.
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6.1.2. For e	emergency responders	
Protective equi	pment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Envi	ronmental precautions	
Avoid release to	o the environment. Notify autho	orities if product enters sewers or public waters.
6.3. Meth	ods and material for contain	ment and cleaning up
For containmer	nt	: Stop leak if safe to do so.
Methods for cle	eaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	on	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Refe	rence to other sections	
	nformation available	
No additional ir	nformation available	
No additional ir SECTION 7	nformation available : Handling and storage	
No additional ir SECTION 7	nformation available : Handling and storage autions for safe handling	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
No additional ir SECTION 7 7.1. Prece	nformation available : Handling and storage autions for safe handling · safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective
No additional ir SECTION 7 7.1. Prece Precautions for Hygiene measu	nformation available : Handling and storage autions for safe handling · safe handling	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
No additional ir SECTION 7 7.1. Prece Precautions for Hygiene measu	nformation available Handling and storage autions for safe handling ures ditions for safe storage, inclu	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
No additional ir SECTION 7 7.1. Prece Precautions for Hygiene measu 7.2. Conc	nformation available : Handling and storage autions for safe handling • safe handling ures ditions for safe storage, inclusion sures	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
No additional ir SECTION 7 7.1. Prece Precautions for Hygiene measu 7.2. Conc Technical measu	nformation available : Handling and storage autions for safe handling • safe handling ures ditions for safe storage, inclu sures •	 Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Iding any incompatibilities Comply with applicable regulations. Keep container closed when not in use. Keep away from ignition sources. Keep contents under

: Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Storage area

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No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available

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Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 216.2774 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

trans-4-Amino-1-Boc-3-hydroxypiperidine (443955-98-4)		
ATE US (oral)	100.000 mg/kg body weight	
ATE US (dermal)	1100.000 mg/kg body weight	
ATE US (gases)	4500.000 ppmV/4h	
ATE US (vapors)	11.000 mg/l/4h	
ATE US (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye damage.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

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SECT	ION 12: Ecological information
12.1.	Toxicity
No addi	itional information available
12.2.	Persistence and degradability
No addi	itional information available
12.3.	Bioaccumulative potential
No addi	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
No addi	itional information available

SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)

Packing group (DOT)

DOT Symbols

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Special Provisions (49 CFR 172.102)

DOT Packaging Bulk (49 CFR 173.xxx)

- : UN2810 Toxic, liquids, organic, n.o.s., 6.1, III
- : UN2810
- : Toxic, liquids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 203
- : 241
- : G Identifies PSN requiring a technical name
- : IB3 Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx): 153DOT Quantity Limitations Passenger aircraft/rail: 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
JN-No. (IMDG)	: 2810
Proper Shipping Name (IMDG)	: TOXIC LIQUID, ORGANIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
JN-No. (IATA)	: 2810
Proper Shipping Name (IATA)	: Toxic liquid, organic, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

trans-4-Amino-1-Boc-3-hydroxypiperidine	CAS No 443955-98-4	100%
Received and the second s		

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full	text	of	H-phrases:
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Acute toxicity (oral) Category 3
Acute toxicity (dermal) Category 4
Acute toxicity (inhalation) Category 4
Serious eye damage/eye irritation Category 1
Skin corrosion/irritation Category 2
Specific target organ toxicity (single exposure) Category 3
Toxic if swallowed
Harmful in contact with skin
Causes skin irritation
Causes serious eye damage
Harmful if inhaled
May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.