

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 24-Mar-2023

**Revision Number** 1

1. Identification	
Product identifier	
Product Name	ANTU
Other means of identification	
Product Code(s)	TRC-A637223-1G
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	Laboratory use
Restrictions on use	Not to be used for human or animal consumption
Details of the supplier of the safety	data sheet
Supplier Address	
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA	
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com	
Web : Igcstandards.com	
E-mail	sds-request@lgcgroup.com
Emergency telephone number	
Emergency Telephone For Hazardous Materials or Dangerous Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970	

# 2. Hazard(s) identification

**Classification** 



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Classified according to OSHA.

Acute toxicity - Oral	Category 2
Carcinogenicity	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable

# Label elements Danger Hazard statements Classified according to OSHA. Fatal if swallowed Suspected of causing cancer

# **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

No information available.

# 3. Composition/information on ingredients



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Substance

Formula

Chemical name	CAS No	Weight-%	Trade secret
antu (ISO)	86-88-4	100	*

4. First-aid measures				
Description of first aid measures				
General advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.			
Inhalation	Remove to fresh air.			
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.			
Skin contact	Wash skin with soap and water.			
Ingestion	Get immediate medical advice/attention. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person.			
Most important symptoms and effects, both acute and delayed				
Symptoms	No information available.			
Indication of any immediate medical attention and special treatment needed				
Note to physicians	Treat symptomatically.			
5. Fire-fighting measures				
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.			
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.			
Specific hazards arising from the chemical	No information available.			
Explosion data Sensitivity to mechanical impa	ct None.			

Sensitivity to static discharge None.



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Special protective equipment and	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
precautions for fire-fighters	Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Personal precautions Ensure adequate ventilation.
- Other information Refer to protective measures listed in Sections 7 and 8.

# Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storag	e		
Precautions for safe handling			
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.		

# 8. Exposure controls/personal protection

### Control parameters

# **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
antu (ISO)	TWA: 0.3 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup>
86-88-4	S*	(vacated) TWA: 0.3 mg/m <sup>3</sup>	TWA: 0.3 mg/m <sup>3</sup>

### **Biological occupational exposure limits**



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This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

# **Appropriate engineering controls**

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective Viton™ gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

# 9. Physical and chemical properties

Information on basic physical and chemical properties				
Physical state	Solid			
Appearance	Solid			
Color	colorless			
Odor	No information available			
Odor threshold	No information available			
Property_	Values	Remarks • Method		
рН	No data available	None known		
Melting point / freezing point	198 °C / 388.4 °F	None known		
Initial boiling point and boiling rang	eNo data available	None known		
Flash point	No data available	None known		
Evaporation rate	No data available	None known		
Flammability	No data available	None known		
Flammability Limit in Air		None known		
Upper flammability or explosive	No data available			
limits Lower flammability or explosive	No data available			



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limits				
Vapor pressure	No data available	None known		
Relative vapor density	No data available	None known		
Relative density	No data available	None known		
Water solubility		@ 25 °C		
Solubility(ies)	Acetone			
Partition coefficient	1.66	None known		
Autoignition temperature	No data available	None known		
Decomposition temperature		None known		
Kinematic viscosity	No data available	None known		
Dynamic viscosity	No data available	None known		
Other information				
Explosive properties	No information available			
Oxidizing properties	No information available			
Softening point	No information available			
Molecular weight	202.28			
VOC content	No information available			
Liquid Density	No information available			
Bulk density	No information available			
10. Stability and reactivity				
Reactivity	No information available.			
	<b>.</b>			

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

# Information on likely routes of exposure

# **Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available. Fatal if swallowed. (based on components).



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### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

## **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
antu (ISO) 86-88-4	= 6 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	Contains a known or suspected carcinogen. Classification bas

sed on data available for ingredients. Suspected of causing cancer. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
antu (ISO)	-	Group 3	-	-
86-88-4				

Legend

# IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.



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Target organ effects	Liver, Respiratory system, Blood.	
Aspiration hazard	No information available.	
Other adverse effects	No information available.	
Interactive effects	No information available.	

12. Ecological information			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
Persistence and degradability	No information available.		
Bioaccumulation	There is no data for this product.		
Component Information			

Chemical name	Partition coefficient	
antu (ISO)	1.66	
86-88-4		

Other adverse effects

No information available.

13. Disposal consideration	ons
<u>Disposal methods</u>	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

US EPA Waste Number P072

# 14. Transport information

DOT

UN number or ID numberUN1651Extended proper shipping nameNaphthylthioureaTransport hazard class(es)6.1



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Packing group Reportable Quantity (RQ) Reportable quantity kg (calculated)	II (antu (ISO): RQ (kg)= 45.40) antu (ISO): RQ (lb)= 100.00 antu (ISO): RQ (kg)= 45.00
Reportable quantity lbs.	antu (ISO): RQ (Ib)= 100.00
(calculated) Special Provisions DOT Marine Pollutant	IB8, IP2, IP4, T3, TP33 NP
Description Emergency Response Guide Number	UN1651, Naphthylthiourea, 6.1, II 153
TDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Marine pollutant Description	UN1651 Naphthylthiourea 6.1 II NP UN1651, Naphthylthiourea, 6.1, II
<u>MEX</u> UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions	UN1651 Naphthylthiourea 6.1 II UN1651, Naphthylthiourea, 6.1, II 43
IATA_ UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Description Special Provisions ERG Code	Not regulated UN1651 Naphthylthiourea 6.1 II UN1651, Naphthylthiourea, 6.1, II A6 6L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Description	UN1651 Naphthylthiourea 6.1 II F-A, S-A 43 NP UN1651, Naphthylthiourea, 6.1, II

# 15. Regulatory information

International Inventories



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TSCA

Complies.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
antu (ISO)	86-88-4	Present	Active

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

# <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

# CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
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antu (ISO)	100 lb	100 lb	RQ 100 lb final RQ
86-88-4			RQ 45.4 kg final RQ

**US State Regulations** 

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
antu (ISO)	Х	X	Х
86-88-4			

# U.S. EPA Label Information

### EPA Pesticide Registration Number Not applicable

16. Other information					
NFPA HMIS Chronic Hazard Star L	Health hazards 0 Health hazards * egend *= Chronic I	Flammability Flammability Health Hazard		Instability 0 Physical hazards 0	Special hazards - Personal protection X
Legend Section 8: TWA	bbreviations and acronyms u Exposure controls/personal TWA (time-weighted average) Maximum limit value	protection	e <b>ty data sł</b> STEL	neet STEL (Short Tern Skin designation	n Exposure Limit)
Agency for Toxic Su U.S. Environmental European Food Safe EPA (Environmenta Acute Exposure Gui U.S. Environmental U.S. Environmental Food Research Jou Hazardous Substan International Uniform Japan GHS Classifie Australia National In NIOSH (National Ins National Library of M National Toxicology	ce Database n Chemical Information Databa cation idustrial Chemicals Notification stitute for Occupational Safety a Aedicine's ChemID Plus (NLM Aedicine's PubMed database (I	y (ATSDR) Database ecticide, Fungici ction Volume Ch ase (IUCLID) and Assessmen and Health) CIP) NLM PUBMED)	ide, and R nemicals nt Scheme	odenticide Act	



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Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note <u>Disclaimer</u> 24-Mar-2023 No information available.

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

**End of Safety Data Sheet**