

Safety Data Sheet



1. Identification of	\mathbf{th}	e Substance and the Organ	ization	
Supplier	:	National Institute of Advance (AIST)	d Industrial Science and Technology	
Address	:	1-3-1 Kasumigaseki, Chiyoda,	, Tokyo, Japan	
Office in Charge	:	Reference Materials Office, Co	enter for Quality Management of	
		Metrology, National Metrolog	y Institute of Japan	
Person in Charge	:	Certified Reference Material	Staff	
Telephone No.	:	+81-29-861-4059	Fax No. : +81-29-861-4009	
Emergency Contact	:	Same as above		
			Prepared on : June 12, 2006	
			Revised on : August 31, 2022	
		R	Reference No. : 6001001	
Identity of	:	Certified Reference Material	NMIJ CRM 6001-a	
Substance/Mixture		Cholesterol		
Recommended Use	:	This CRM is intended for use	in the calibration of analytical	
of the Chemical and		instruments, quality control of analytical instruments, and		
Restriction on Use		validation of analytical techniques and instruments. Do not use		
		this reference material for oth	er purposes than testing/research.	
		This CRM is a reference mate	rial (specified in the Japanese	
		Industrial Standard (JIS) Q 0	030).	

2. Hazards identification

GHS Classification :	Not classifiable			
GHS Label element :	Not available			
Signal word :	-			
Hazard and toxicity :	-			
Other hazards :	Harmful if inhaled or swallowed. Irritates eye or mucous membrane			
and toxicity	upon contact. Long-term exposure may cause discomfort, nausea,			
	headache, etc.			
Precautionary :	[Preventive Measures]			
statements	Avoid exposure entirely. Use appropriate protective equipment.			
	Restrict the use for research purpose experiments only.			
	Do not use for in vivo experiments.			
	[Response]			
If swallowed : Wash the mouth well, drink 1-2 glasses of water				
milk to induce vomit. Get medical assistance promptly.				
	On the skin: if irritated or inflamed, get medical assistance			
	[Storage]			
	Store in dark place at 0 °C to 6 °C.			



[Disposal]

Hazardous and toxic properties not specified in the above are not neither the object of the classification nor classifiable.

3. Composition/Information on Ingredients

Substance or mixture	:	Single product
Chemical name	:	Cholesterol
Synonym	:	-
Content	:	99.9 %(g/g)
Chemical or structural	:	$C_{27}H_{45}OH$
formula		
Molecular weight	:	386.65
Reference Number in	:	Act on the Evaluation of Chemical Substances and Regulation of
Gazetted List in Japan		Their Manufacture, etc. : (4) - 1301
		Industrial Safety and Health Act : Published
CAS number	:	57-88-5
Hazardous component	:	-

4. First-aid Measures

If in eyes	:	Rinse off with plenty of clean water, get medical assistance
If on skin	:	Rinse off with plenty of clean water.
If inhaled	:	Move to fresh air area, keep warm and rest.
If swallowed	:	Wash the mouth thoroughly, call for medical assistance.
Anticipated acute & delayed symptoms	:	-
Most significant characteristics & symptoms	:	-
Protection of the person applying first-aid	:	Use personal protective equipment.

5. Fire-fighting Measures

Extinguishing media	:	Water, powder, foam, carbon dioxide, dry sand
Specific hazards at the		May generate irritable or toxic fume (or gas)
time of fire		
Specific extinguishing	:	Remove combustible materials from near the fire source and
measures		start extinguishing. Transfer movable containers to a safe place
		promptly. If impossible to transfer, cool down around the
		container with water spray.
Protecting fire- fighting	:	Use protective equipment such as fire-safe clothing, breathing
personnel		equipment.



6. Accidental Release Measures

Personal precaution	:	Have fire extinguisher ready in case of fire.
Protective equipment	:	Wear appropriate protective equipment to protect the skin from
and emergency		spattering droplets and prevent inhaling dust, particulate or gas.
procedures		
Environmental	:	Prevent the environment from being contaminated by the spilled
precautions		products or material discharged to rivers, etc. Contaminated
		waste water must be treated appropriately before discharging.
Recovery,	:	Recover the leakage in an empty container and wash away the
neutralization		area thoroughly with plenty of water.
Secondary disaster	:	Rope off the leakage area and prohibit unauthorized persons'
prevention		entrance. Work on the windward and evacuate people on the
		leeward.

7. Handling and Storage

Handling		
Technical measures	:	Avoid exposure entirely
Local exhaust or central ventilation	:	When handling indoor, use local exhaust ventilation
Safe handling	:	Handle the container carefully and avoid knocking over,
precautions		dropping or dragging.
		Prevent leakage, overflow or spatter
		Wash hands, face, etc. well and gargle after handling
		Use appropriate protective equipment to protect from
		inhalation, contact with eye, skin and clothing.
Storage		
Condition for safe storage	:	Store in a dark place at 0 °C to 6 °C.
Safe packaging material	:	Glass

8. Exposure Controls/Personal Protection

Standard controlled concentration Not established Maximum permissible concentration (Threshold limit value) • ACGIH TLV- TWA : Not established : · Japan Society for Not established **Occupational Health** recommended reference value \cdot OSHA PEL TWA Not established : Facility engineering control Ventilation, exhaust : Local exhaust ventilation or central ventilation system



Safety control, gas detection	:	-
Storage precaution	:	-
Protective equipment		
Respiratory tract protection	:	Breathing apparatus
Hands	:	Protective gloves
Eyes	:	Protective eyeglasses
Skin and body	:	Protective clothing

9. Physical and Chemical Properties

• Appearance, etc.	:	Powder
• Color	:	White
• Odor	:	No data
• pH	:	No data
• Melting point	:	148 °C
• Boiling point	:	360 °C
• Flashing point	:	No data
• Explosive range	:	No data
• Vapor pressure	:	No data
• Relative vapor	:	No data
density(Air=1)		
• Specific gravity or bulk specific gravity	:	1.067
• Solubility	:	Insoluble in water. Soluble in ethanol, chloroform,
		diethyl ether, pyridine
• <i>n</i> -Octanol/water partition	:	No data
Auto-ignition tomporature		No data
rato ignition temperature	•	ino uava

10. Stability and Reactivity

 \diamondsuit Stability

 $\boldsymbol{\cdot}$ Stable under normal condition

- \Diamond Reactivity
 - $\boldsymbol{\cdot}$ May react upon contact with strong oxidant
- $\diamondsuit {\rm Condition}$ to avoid
 - Sunlight, heat, contact with strong oxidant
- \bigcirc Hazardous decomposition products
 - $\boldsymbol{\cdot}$ Carbon monoxide

11. Toxicological Information

No data available

12. Ecological Information

Degradability, concentration

• No data available

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BioaccumulationNo data availableEcotoxicityNo data available

13. Disposal Consideration

• Burn in an incinerator equipped with afterburner and scrubber

14. Transport Information

UN Number	:	Not applicable
UN	:	Not applicable
classification		
Name	:	-
Container class	:	-
Marine	:	Not applicable
pollutant		
Precautions	:	Transfer with care avoiding leakage or spill due to fall or drop,
		keep under appropriate temperature and away from fire sources.

15. Regulatory Information

 $\boldsymbol{\cdot}$ None applicable

This SDS is originally prepared for the use of the material in Japan, thus the stated laws and regulations are stipulated and carried out in Japan. The use of the material in other countries should be referred to and by application of the relevant laws and regulations of the country in which the material will be used.

16. Other Information

Others

The information in this document is not intended to be exhaustive and is based on currently available information and data. The measures given in this document are applicable only to normal handling conditions. When handling this reference material under special conditions etc., it is recommended to take safety measures appropriate to each specific application and context of use. This document is intended to provide information and not intended to guarantee anything in handling this reference material.