



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 26-Feb-2024 Revision Number 5.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Hexazinone Standard
081-08311
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+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture	
Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Category 3 Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 liver	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1
Pictograms	



Hazard statements

- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H336 May cause drowsiness or dizziness
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life
- H373 May cause damage to the following organs through prolonged or repeated exposure: liver

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Precautionary statements-(Response)

· Get medical advice/attention if you feel unwell

• 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 or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- · Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth

· Collect spillage

Precautionary statements-(Storage)

- · Store in a well-ventilated place. Keep container tightly closed
- · Store locked up

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

Others Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Substance

Formula

C12H20N4O2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
3-Cyclohexyl-6-dimethyl	98.0	252.31	(5)-5236	*	51235-04-2
amino-1-methyl-1,3,5-tri					
azine-2,4(1H,3H)-dione					
Note on ISHI No · · · · · · · · · · · · · · · · · ·					

Note on ISHL No.:

in the table means announced chemical substances.

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Safe packaging material Incompatible substances

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Glass

Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
3-Cyclohexyl-6-dimethylamino-	N/A	N/A	TWA: 3 mg/m ³ inhalable
1-methyl-1,3,5-triazine-2,4(1H,			particulate matter
3H)-dione			
51235-04-2			

Personal protective equipment Respiratory protection Hand protection Eye protection

Dust mask (JIS T 8151) chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	white
Appearance	crystals - powder
Odor	no data available
Melting point/freezing point	116-120 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	water, Ethanol, acetone: soluble.
n-Octanol/water partition coefficient:(log Pow)	1.36
Vapour pressure	no data available
Specific Gravity / Relative density	no data available
Vapour density	no data available
Particle characteristics	no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity	no data available
Chemical stability	May be altered by light.
Hazardous reactions	
None under normal processing	
Conditions to avoid	
Extremes of temperature and dire	ct sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	S
Carbon monooxide (CO), Carbon	dioxide (CO2), Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute toxicity			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
3-Cyclohexyl-6-dimethylamino-		> 5000 mg/kg (Rabbit)	> 7.48 mg/L(Rat)4 h
1-methyl-1,3,5-triazine-2,4(1H,			
3H)-dione			
Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-

information

information

source information

3-Cyclohexyl-6-dimethylamino-1-me Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
thyl-1,3,5-triazine-2,4(1H,3H)-dione classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
3-Cyclohexyl-6-dimethylamino-1-me	Based on the NITE GHS		Based on the NITE GHS
thyl-1,3,5-triazine-2,4(1H,3H)-dione	classification results.		classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
Carcinogenicity	
Chemical Name	Carcinogenicity source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine-2,4(1H,3H)-di	Based on the NITE GHS classification results.
one	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
3-Cyclohexyl-6-dimethylamino-	ErC50 : Pseudokirchneriella	N/A	N/A
1-methyl-1,3,5-triazine-2,4(1H,	subcapitata		
3H)-dione	0.041 mg a.i./L 72 h		

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
3-Cyclohexyl-6-dimethylamino-1-methyl-1,3,5-triazine	Based on the NITE GHS classification	Based on the NITE GHS classification

-2,4(1H,3H)-dione	results.	results.
Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer	No information available No information available No information available No information available	
Se	ection 13: DISPOSAL CON	SIDERATIONS
Contaminated container and conta Disposal should be in accordanc	e with applicable regional, national a aminated packaging e with applicable regional, national a ection 14: TRANSPORT I	and local laws and regulations.
3	ection 14. TRANSPORT	NFORMATION
ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3077 Environmentally hazardous substa (3-Cyclohexyl-6-dimethylamino-1-r 9 III Yes	ance, solid, n.o.s. methyl-1,3,5-triazine-2,4(1H,3H)-dione)
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	9 III Yes No information available	ance, solid, n.o.s. methyl-1,3,5-triazine-2,4(1H,3H)-dione)
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Environmentally Hazardous Substance	UN3077 Environmentally hazardous substa (3-Cyclohexyl-6-dimethylamino-1-r 9 III Yes	ance, solid, n.o.s. methyl-1,3,5-triazine-2,4(1H,3H)-dione)

Section 15: REGULATORY INFORMATION

Japanese regulations_	
Fire Service Act Not applicable	
Poisonous and Deleterious Not applicable	
Substances Control Law	
Industrial Safety and Health Act Not applicable	
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc. (Regulations Article 594-2 Paragrap	n 1)
2024~)	
Regulations for the carriage Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regardin	g

and storage of dangerous goods in ship	Transport by Ship and Storage, Attached Table 1)
Civil Aeronautics Law	Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)
Marine Pollution Prevention Law	Marine pollutants (P and PP substances)
Pollutant Release and Transfer Register Law (2023.4.1-)	Not applicable
Export Trade Control Order	Not applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Regulatory information.

Record of SDS revisions Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet