

ACN

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/24/2022 SDS code: V6-17 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : ACN SDS code : V6-17

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number : 06-6910-7305

2. Hazards identification

GHS classification

Health hazards

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

Oxidizing gases

No classification

No classification

No classification

No classification

No classification

Flammable liquids

No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in No classification

contact with water emit flammable

gases

Oxidizing liquids
Oxidizing solids
Organic peroxides

No classification
No classification
No classification

Corrosive to metals classification not possible

Desensitized eplosives No classification
Acute toxicity (oral) Category 4

Acute toxicity (dermal) No classification
Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation No classification
Serious eye damage/eye irritation Category 2

Respiratory sensitization classification not possible

Skin sensitization Category 1
Germ cell mutagenicity No classification
Carcinogenicity Category 2
Reproductive toxicity Category 2

Specific target organ toxicity (single)

exposure)

Category 3 (Narcosis)

Specific target organ toxicity (single

exposure)

Category 3 (Respiratory tract irritation.)

Specific target organ toxicity Category 1 (blood system, urinary system, liver,

(repeated exposure) adrenal)

Environmental

Aspiration hazard

Category 1

hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer

Category 1

classification not possible

classification not possible

Hazard pictograms (GHS JP)







GHS07

GHS08 Danger

GHS09

Signal word (GHS JP)

Harmful if swallowed (H302) Hazard statements (GHS JP)

> May cause an allergic skin reaction (H317) Causes serious eye irritation (H319) May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336) Suspected of causing cancer (H351)

Suspected of damaging fertility or the unborn child (H361)

Causes damage to organs (blood system, urinary system, liver, adrenal)

through prolonged or repeated exposure (H372) Very toxic to aquatic life with long lasting effects (H410)

Precautionary statements (GHS JP)

Prevention Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260) Wash hands, forearms and face thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Contaminated work clothing should not be allowed out of the workplace.

(P272)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

(P301+P312)

IF ON SKIN: Wash with plenty of water. (P302+P352)

IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

(P305+P351+P338)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

Get medical advice/attention if you feel unwell. (P314)

Rinse mouth. (P330)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

Collect spillage. (P391)

Store in a well-ventilated place. Keep container tightly closed. Storage

(P403+P233)

Store locked up. (P405)

Disposal Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture Substance

	Concentration or Concentration range	Formula	Kanpo number		
Name			CSCL no	ISHL no	CAS RN
ACN (Quinoclamine)	≧95%、≦100%	C10H6CINO2	(4)-390	7-(1)-29	2797-51-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Rinse mouth.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

May induce explosion of containers by heating.

Hazardous decomposition products in case of fire

Firefighting instructions

In case of fire, product may produce irritative or toxic fumes/gases.

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in : Light shielding airtight container.

packaging/containers

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : white
Odor : Odorless

pH : No data available

Melting point : 202 °C

Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

Vapor pressure : 3.07×10⁻⁵ Pa (20°C), 9.33×10⁻³ Pa (69°C)

Relative density : No data available

Density : 1.56 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Soluble in acetone. Soluble in acetonitrile. Soluble in dichloromethane.

Soluble in ethyl acetate. Slightly soluble in n-hexane. Soluble in methanol.

Soluble in methyl ethyl ketone. Soluble in toluene.

Water: 20.0 mg/l (20°C)

Partition coefficient noctanol/water (Log Pow)

1.58 (25°C)

Explosive limits (vol %) : No data available

Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : No data available Conditions to avoid : Sunlight, Heat Incompatible materials : No data available

Hazardous decomposition : Nitrogen oxides, Chlorine and its compounds

products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

ACN (Quinoclamine)			
Acute toxicity (oral)	Category 4		
Acute toxicity (dermal)	No classification		
Acute toxicity (gas)	No classification		
Acute toxicity (vapour)	classification not possible		
Acute toxicity (inhalation:dust/mist)	classification not possible		
Skin corrosion/irritation	No classification		
Serious eye damage/irritation	Category 2		
Respiratory sensitization	classification not possible		
Skin sensitization	Category 1A		
Germ cell mutagenicity	No classification		
Carcinogenicity	Category 2		
Reproductive toxicity	Category 2		
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)		
STOT-repeated exposure	Category 1		
Aspiration hazard	classification not possible		

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

ACN (Quinoclamine)		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
Hazardous to Aquatic Environment - Chronic Hazard	Category 1	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

: Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

Class (IMDG)

UN-No. (IMDG) : 3077

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A
MFAG-No : 171

Air transport(IATA)

UN-No. (IATA) : 3077

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

9

Packing group (IATA) : III

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9

Class (IATA) : 9

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y956

PCA limited quantity max net : 30kgG

quantity (IATA)

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197, A215

ERG code (IATA) : 9L

Marine pollutant : Applicable

Regulations in Japan

Regulatory information by sea : Conform to the provisions of the Ship Safety Law.
Regulatory information by air : Conform to the provisions of the Civil Aeronautics Law.

171

MFAG-No :

Special transport precautions : When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act Export Trade Control Ordinance appendix 1-16

 Miscellaneous dangerous substances & articles (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles (Hazardous materials

notice Appended Table 1 Article 194 of the Enforcement Regulations)

Japanese Pollutant Release and : [After amendment of April 2023]

Transfer Register Law (PRTR Law) Class 2 Designated Chemical Substances (Act, Art.2, Para. 3,

Enforcement Order, Art.2, Appended Table 2) 2-Amino-3-chloro-1,4-naphthoquinone (100%)

16. Other information

Data sources

 Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.
 National Institute of Technology and Evaluation (NITE).
 2020 Emergency Response Guidebook (ERG 2020).

Other information

The SDS is copyrighted material of Havashi Pure Chemical Ind. Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.