

# Safety Data Sheet

## 【1 Chemical Substances and Company Identification

Products name : Volatility rust prevention paper NP-VCI-S Cu  
(copper/copper alloy impregnation type)

Company Name : Ryoko Chemical Co., Ltd.

Address : 〒103-0023

Department in-charge : Lifestyle industry business Div. Life business sales departments

Telephone number : 03-6861-0056

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Emergency contact : 03-6861-0056

Recommended use and restrictions or : Volatility rust prevention paper

Reference number :

Creation date : 2015/4/20

Date of revision : -

## 【2 Hazard identification

### GHS classification

Physicochemical hazards	: Explosive substance	Not applicable
	: Combustibles flammable gas	Not applicable
	: Aerosol	Not applicable
	: Oxidizing Gases	Not applicable
	: High-pressure gas	Not applicable
	: FLAMMABLE LIQUIDS	Not applicable
	: Flammable solid	Classification not possible
	: SELF-REACTIVE SUBSTANCES	Not applicable
	: Pyrophoric liquids	Not applicable
	: PYROPHORIC SOLIDS	Not classified
	: SELF-HEATING SUBSTANCES	Not classified
	: Water reactive combustible chemicals	Not classified
	: OXIDIZING LIQUIDS	Not applicable
	: OXIDIZING SOLIDS	Classification not possible
	: ORGANIC PEROXIDES	Not applicable
	: CORROSIVE TO METALS	Not classified
Health hazard	: ACUTE TOXICITY(Oral)	Category 4
	: ACUTE TOXICITY(Dermal)	Classification not possible
	: ACUTE TOXICITY (Gases)	Not applicable
	: Acute toxicity (inhalation-vapors)	Classification not possible
	: Acute toxicity(inhalation: dust)	Classification not possible
	: Acute toxicity(inhalation: mist)	Category 4
	: SKIN CORROSION/IRRITATION	Classification not possible
	: Serious Eye Damage/Eye Irritation	Classification not possible
	: Respiratory sensitization	Classification not possible
	: Skin sensitisation	Classification not possible
	: GERM CELL MUTAGENICITY	Classification not possible
	: Carcinogenicity	Classification not possible
	: Reproductive toxicity	Classification not possible
	: SPECIFIC TARGET ORGAN TOXICITY (SINGLE E)	Classification not possible
	: SPECIFIC TARGET ORGAN TOXICITY (REPEATE	Classification not possible
	: ASPIRATION HAZARD	Classification not possible
Environmental hazards	: Aquatics environment hazards short period term(ar	Classification not possible
	: Aquatics environment long hazards terms(chronic)	Classification not possible

: HAZARDOUS TO THE OZONE LAYER

Classification not possible

## GHS label elements

Pictogram

:



Signal word : Warning

Hazard statement : Harmful if swallowed

Toxic if inhaled

Precautionary statement : [Safety measures]

Wash hand well after treatment.

Do not eat, drink or smoke when using this product.

Avoiding inhalation of dust/mist.

Use only outdoors or in a well-ventilated area

(First-aid measures) → be counted in item of(4 emergency measures)

(storage) → be counted in item of(7 treatments and caution for storage)

(disposal) → be counted in item of(13 disposal consideration)

## 【3 Composition and information on ingredients

Homogeneous/mixed substance : Mixture

Components and information on ingre: 1,2,3-benzotriazole

Component	Content(%)	CAS No.	Official reference No.	
			Chemical Substance Control Law	Industrial safety and health law
1,2,3-benzotriazole	2 to 3	95-14-7	(5)-537	(5)-537
Paper	97 to 98	—	—	—

## 【4 Emergency measure

Using suitable extinguishing agents for fire.

INGESTION: : Call a doctor if you feel bad  
Rinse mouth.Skin contact : When was attached to skin: washing with large amounts of water and soap  
When result in skin irritation,/medical attentions allowance's being received.  
Take off contaminated clothing and wash it before reuse.Eye contact : Rinse cautiously with water for several minutes. If wearing contact lenses,  
remove it and Continue rinsing.

Immediately call a doctor

Inhalation : Remove person to fresh air and keep comfortable for breathing.  
Get medical treatment if it is possible.

Protection for First Aid provider : Wear the protection by condition.

## 【5 Measures at fire

Extinguishing Media : In incipient fire, carbon Dioxide, powder chemical, dry sand etc is employed.  
In large-scale fire, water spray, powder chemical is employed.Unusual fire hazards : When this product decomposes, it is possibility to produces harmful gas including  
nitrogen oxides, so that be careful to not inhale smokes.FIRE FIGHTING MEASURES : Fire fighting should be done from the windward side as much as possible.  
Entry except for interested parties is banned in place area of fire.  
For fire in surrounding area move available containers transfer safes places immediately..  
To discharges for fire-fighting, do not spill out the products in environment.Protection for Fire Fighters : Wear (Respiratory protective equipment, chemical protective clothing, gloves,  
boots, glasses and mask ect) and avoid direct touch and inhalation by situation  
Put out fire from the wind side.

## 【6 Measures at leak

: There is not leakage for paper

## 【7 Treatments and cautions for storage

### Handling

Technical measures : Wear protective equipment including protective gloves and glasses  
To set washing equipment for eye and body as emergency situation where is near the product applying place.

Local exhaust ventilation, systemic ve: Apply it under local exhaust, or, overall ventilation equipment.

Safes handling cautions precaution : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking. Soaking at(whenever possible) waters.  
Keep only in original container.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Washing hand well after treatments.  
Obtain the instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid release to the environment.

### Storage

Appropriate storage conditions : Storing accord related laws and standards of local government.  
Avoiding sunlight, and close it tightly with cool and dark place with good ventilation, and store.  
Avoiding approach, application of heat, impact with flames, sparks, or, hot materials or friction.

## 【8 Exposure control and personal protection

Administrative Level : Not specified

### Occupational exposure limits

#### Japan Society for Occupational Health

: Not specified

#### ACGIH

: Not specified

Equipment countermeasures : Set up local exhaust ventilation or the sealing equipment for occur steam.  
Set up eye and hand washing equipment with safety shower near the applied place. And clearly show them the equipment.

### Protective equipment

Respiratory protection : Wear respirators if it is necessary.

Hand Protection : Wear protective impervious gloves(rubber gloves).

EYE PROTECTION : Wear protective glasses(common types spectacles).

Protective clothes of skin and f: Wear long sleeve work clothing.

## 【9 Physical and chemical attributes

### Appearance

Physical State : Paper letter

Manky : Some amine odor

PH : No data

Melting point : No data

Boiling point : No data

Flash point : No data

### Explosive limits

Lower limit : No data

Upper limit : No data

Vapour pressure : No data

Vapor density(water =1) : No data

Specific gravity : No data

Ignition point : No data

Decomposition temperature : No data

Other data : No data



## 【10 Stability and reactivity

- Stability : It is possibility for the deterioration and discoloration by sunlight or strong light.
- Possibility of hazardous reactions : When decomposed by cotacting strong acids, strong oxidants and reducing agent, it might be produced carbon Dioxide and toxic nitrogen oxides.
- Conditions to avoid : Avoiding flames, sparks, or, approach with hot materials.
- Incompatible materials : Strong acids, strong base, strongly oxidizing agent, reducing agent.
- Hazardou decomposition product : If combustion and decomposition, it is possibility to occurring carbon monoxide, carbon dioxide, nitrogen oxides, etc.

## 【11 Hazard information

- Acute toxicity : Below is estimation value of mixture acute toxicity(oral)  
Which is classifications 4th.

(Appended table) acutes toxicity(PO, transdermal and inhalation)

Component	Content(%)	Acute toxicity (Oral)	Acute toxicity (Transdermal)	Acute toxicity (Inhalation: gas)	Acute toxicity (Inhalation: vapor)	Acute toxicity (Inhalation: dust, Mist)
BENZOTRIAZOLE	2 to 3	Classification 4(560 mg/kg)	Classification not possible	Classification not possible	Classification not possible	Classification 4
Paper	97 to 98	Not applicable				

- Skin corrosion/Irritation : No data
- Serious eye damaging/irritating property : No data
- The Respiratory/cropping skin feeling sensitization : No data
- Germ cell mutagenicity : No data
- Carcinogenicity : No data
- Reproductive toxicity : No data
- SPECIFIC TARGET ORGAN TOXICITY (single exposure) : No data
- Specific target organ toxicity (repeate exposure) : No data
- ASPIRATION HAZARD : No data

## 【12 Ecological Information

- Ecological toxicity :
- Fish toxicity : No data
- Crustacean : No data
- Algae : No data
- Other organisms : No data
- Degradability : No data
- Bioaccumulation : No data
- Movability in soil : No data
- Hazardous to the ozone layer : No data

## 【13 Disposal consideration

- Residual waste : Follow the instruction by Federal, States, Provincial and local laws.  
If the special Industrial waste disposal contractor or local goverments make waste, follow the instruction from them.  
If requesting normal disposals for the waste, Notify its risk and hazardus.
- Pollution containment and packaging : Containers should be recycling after cleaning, or follow the instruction by local goverments or regulations.  
Remove the content completely before disposal of the container.

## 【14 Transport Information

- International regulations
- IMDG(international maritime dangerous good) code : Non applicable

: Non applicable

Domestic regulations

Land-based regulatory informat: Non applicable

Marine regulation : Non applicable

Aviation regulation : Non applicable

Specific measures for safety and condition of transportation

: Non-applicable

No. index first-aid emergency measur: Non applicable

【15 Regulatory Information

Chemical substance control enhancen: Non-applicable

Industrial Safety and Health Law : Non applicable

Poisonous and Deleterious Substance: Non applicable

Fire Defense Law : Non applicable

Chemical Substance Control Law : Non applicable

Foreign Exchange and Foreign Trade L: Non applicable

【16 Other information

References : 1) nite(National Institute of Technology and Evaluation)-CHRIP(chemicals comprehensive information provision systems)  
2) SDS of offices Anzen  
3) SDS of material

Contact for information of MSDS : Ryoko Chemical Co., Ltd.

\* Description bases materials that could be available at currents information, and is composed, but accuracy of the information, integrity. It is not guaranteed. Also, this information may be revised by new findings, test, etc.

\* Notify is for only normal handling. Other chemical substances are mixed, and be taken in special handling  
In case, conducts safety measures that is suitable for application usage with the most recent on lectured.  
As there may be unknown health hazards for all chemical products, be extreme cares for treatments.

\* Please set safety usage conditions by own as own responsibility.