

**SAFETY DATA SHEET (SDS)****SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION**

**NAME OF PRODUCT:** STANDARD SHEET MD-105 (YAG)  
**MANUFACTURER:** JAPAN TECHNO ENGINEERING CO., LTD.  
 6-28-10, Higashikasai, Edogawaku, Tokyo, JAPAN  
**TELEPHONE NUMBER** 81-(0)3 3804 6760  
**FAX NUMBER :** 81-(0)3 3804 6761  
**EMERGENCY CONTACT No. :** SAME AS ABOVE  
**CONTACT :** YUICHI ICHIHARA  
**PRODUCT USE :** STEEL SHEET FOR WELDING

**SECTION 2: HARZRDS IDENTIFICATION**

GHS Classification and GHS label elements

**[GHS Classification]**

&lt; Health Hazard&gt;

Hazard Class	Hazard Category	Helth Hazard Statements
Serious eye damage eye irritation	2A	Causes eye irritation
Sensitisation, respiratory	1	May cause allergy or astima symptoms or breathing difficulties if inhaled.
Sensitisation, skins	1	May cause an allergic skin reaction
Germ cell mutagenicity	2	Suspected of causing genetic defects
Carcinogenicity	2	Suspected of causing cancer
Reproductive toxicity	1A	May damage fertility or the unborn child
Specific target organ toxicity,single exposure	1 (Respiratory, Kidney,Digestive Organ)	Causes damage to organs (Respiratory, Kidney, Digestive organ)
	2 (Systemic toxicity)	May cause damage to organs (systemic toxicity)
	3 (Respiratory tract irritation)	May cause respiratory irritation
Specific target organ toxicity, repeated exposure	1 (Respiratory, Nervous system)	Causes damage to organs through prolonged or repeated exposure (Respiratory, Nervous system)

Note) Hazard class without description on as above is " not categorized", " not applicable" or " cannot be classified"

&lt; Environmental Hazard&gt;

Hazard Class	Hazard Category	Environment Hazard Statements
Hazardous to the aquatic environment, long-term hazard	4	May cause long lasting harmful effects to aquatic life

Note) Hazard class without description on as above is " not categorized", " not applicable" or " cannot be classified"

**[GHS label elements]**

&lt; Pictgrams or symbol&gt;



&lt;Signal word&gt;

Danger

## <Precautionary statements>

### Prevention

- P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves / eye protection / face protection.  
P284 In case of inadequate ventilation, wear respiratory protection.

### First-aid measures

- P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.  
P312, P314 Call a doctor and get Medical advice / attention if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and to do. Continue rinsing.  
P337+P313 If eye irritation persists : Get medical advice/attention.  
P332, P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P308+P313 If exposed or concerned : get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

### Storage

- P405 Store locked up.

### Disposal

- P501 Dispose of contents / container in accordance with international, national, state or municipal regulations.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Classification of a single / mixture : mixture (alloy)

Elements	Composition wt%	Cas No.
<b>Ni</b>	18.5	7440-02-0
<b>Co</b>	9.0	7440-48-4
<b>Mo</b>	5.0	7439-98-7
<b>Ti</b>	0.9	7440-32-6
<b>Al</b>	0.1	7429-90-5

## SECTION 4: FIRST-AID MEASURES

Refer to Item 2.

## SECTION 5: FIRE-FIGHTING MEASURES

Steel materials are nonflammable (solid), ordinary fire extinguishers and/or water can be used to put out any fire. Note that fine powder may lead to combustion or explosion.

**Fire extinguishing agents** : Use fire extinguishing agent appropriate for fire situation.

**Unsuitable extinguishing media** : None

## SECTION 6: ACCIDENTAL RELEASE MEASURES

As product is solid, it is not leaked under general conditions. However, take measures below to prevent hazards by dust or fumes generated during steel material processing:

## **PERSONAL PRECAUTIONS**

Wear appropriate protection to prevent an inhalation of fume and dust, and to prevent an entering into eyes.

## **PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Wear appropriate respiratory protection / protective gloves/ eye protection/ protective clothing/ safety boot.

## **ENVIRONMENTAL PRECAUTIONS**

Collect the dusts caused by processing such as cutting, grinding immediately.

## **METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP**

Collect the dusts caused by processing such as cutting, grinding by an appropriate method immediately.

And put collected dust in an appropriate container to prevent scattering.

## **SECTION 7: HANDLING AND STORAGE**

### **<HANDLING>**

#### **TECHNICAL MEASURES**

When you process welding, weld cutting, cutting, grinding about this product, and fume or dust occur, carry out appropriate ventilation (local ventilation or all ventilation in the factory)

In addition, wear a appropriate protection in order to protect respiratory organs, skin, eyes and body.

#### **PRECAUTIONS FOR SAFE HANDLING**

Be careful about rolling, package collapse and falls, because this product is heavy.

Be careful, because a cutting edge or a cutting waste might injure skin or eyes.

Be careful, because you may burn yourself by an arc to occur by welding and weld cutting.

Be careful, because fines and dust which occurred by cutting and grinding may have combustibility and explosiveness.

When you cut a unity band or a packing hoop, be careful about rebounding and the tip of the hoop.

Because the coil tip may jump up when you cut a unity hoop (band) in the case of a coil product, be careful

### **<STORAGE>**

#### **CONDITIONS FOR SAFE STORAGE**

Avoid contact with water wet, acid, alkali or substances containing them.

Avoid the environment of high temperature and high humidity. For prevention of with the rainwater contact and prevention of rust, cover with a seat or a cover as needed.

When you keep fines, dust, chips which occurred by cutting and grinding, cover not to be scattered.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

This product is a solid under the general environment, and there is not the useful information about prevention of exposure and protection measures. But when dust or fume occur by processing such as welding, weld cutting, cutting or grinding, you make appropriate work environment such as ventilating them, and wear appropriate respiratory protection / protective gloves/ eye protection / protective clothing / safety boot.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE AND APPEARANCE** : Wire (solid)

**COLOR** : A silver-white color

**ODOR** : Odorless

**SOLUBILITY** : Insoluble in water

## **SECTION 10: STABILITY AND REACTIVITY**

### **REACTIVITY, CHEMICAL STABILITY AND POSSIBILITY OF HAZARDOUS REACTIONS**

Chemically stable under the general environment.

When this product contacts the chemical substances such as acid, it may cause the occurrence of harmful gas and the lack of oxygen.

#### **CONDITIONS TO AVOID**

Avoid contact with a acid liquid etc.,

## **INCOMPATIBLE MATERIALS**

Acid liquid etc.,

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Refer to Item 2.

## **SECTION 12: ECOLOGICAL INFORMATION**

Refer to Item 2.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

This product, end material, cutting waste and packing material to be disposed in accordance with international, national, state or municipal regulation about the industrial waste.

## **SECTION 14: TRANSPORT INFORMATION**

Be careful about rolling, package collapse and falls at transportation.

## **SECTION 15: REGULATORY INFORMATION**

Industrial Safety and health Act.

Act on Confirmation, etc., of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof.

## **SECTION 16: OTHER INFORMATION**

### **<REFERENCE>**

Brochure that Ministry of Economy, Trade and Industry and Ministry of Health, Labour and Welfare issued, about the SDS providing system. (October, 2012 issue).

"National Institute of Technology and Evaluation" Internet site

"Site of Safety in a Workplace (Ministry of health, Labour and Welfare)" Internet site

\* This safety data sheet is prepared based on documents and information available at present.

This safety data sheet is intended to provide reference information to secure the safe handling of our product and is not intended to guarantee the safety of our product.

In the handling of our product, please use this safety data sheet after having understood that it is necessary to take safety measures suitable for a purpose and a method to use, by responsibility of handling company oneself.

In addition, this safety data sheet is a translation of original data sheet written in Japanese.

We shall take no responsibility for its accuracy of the translation.

The end of this safety data sheet.