MATERIAL SAFETY DATA SHEET (MSDS)

FOR STAINLESS STEEL BALL VALVE (NON-FIRE SAFE APPROVAL)

				-page 1 of 3 -	
PRODUCT IDENTITY : Stainless Steel Ball Valve (Non-Fire Safe approval)				MSDS# : 001	
SECTION I. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY					
MANUFACTURE'S NAME : Various DISTRIBUTOR : TA CHEN INTERNATIONAL, INC.			Emergency Telphone Number : 404 -431-1607 Customer Service : 562 -808 - 8000		
ADDRESS : LOS ANGELES (USA Headquarter) 5860 Paramount. Long Beach, CA. 90805			Toll Free : 800 -364 - 8389 Company Contact : Mr. Matt Patton		
CHEMICAL NAME AND SYNONYMS : Stainless Steel Alloys : Type 304, Type 316 , and ASTM A351. Teflon and Reinforced Teflon. Molecularly Enhanced Teflon. Fluoroelastomer.					
SECTION II. HAZARDOUS INGREDIENTS					
ELEMENT	CAS NO.	% RANGE	OSHA PEL (mg / M ³)	ACGIH TLV (mg / M ³)	
Iron	7439-89-6	65-68.5	10 dust	5 dust	
Chromium	7440-66-6	17 - 19	0.5	0.5 dust / fume	
Nickel	7440-02-0	9 -12.5	2	2	
Molybdenum	7439-98-7	0 -2.5	5 respirable dust, 10 total dust	10 dust	
Manganese	7439-96-5	1.75-2	1	5	
Cobalt	7440-48-4	0.2 -0.75	0.05 dust / fume	0.05 dust / fume	
Pure Teflon *					
Reinforced Teflon *					
Molecularly Enhanced Teflon *					
Fluoroelastomer*					
*Food grade plastic material. MSDS s	heets are availal	ole upon requ	est.		

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	- page 2 of 3 -					
SECTION III. PHYSICAL DATA						
MELTING POINT : 2400 to 2800° F	Specific gravity : 7.5 to 8.5 g/cc					
BOILING POINT : Not Applicable	VAPOR PRESSURE : Not Applicable					
Stainless Steel is a shiny silver-gray colored metallic solid, it has no odor, and is not solvable in water.						
SECTION IV. FIRE & EXPLOSION HAZARD DATA						
FLASH POINT : Not Applicable Auto-IGNITION TEMPERTURE : Not Applicable FLAMMABLE LIMITS : LEL N/A UEL N/A	EXTINGUISHING MEDIA : Water spray or ABC dry chemical NATIONAL FIRE PROTECTION ASSOCIATION DATA : Health 1 Flammability -0					
SPECIAL FIRE FIGHTING PROCEDURES : None when solid.	Reactivity-0 Special - None					
UNUSUAL FIRE AND EXPLOSION HAZARDS : Do not use water on molten metal						
SECTIONV. HEALTHHAZARDDATA StainlessSteelBallValves						
THRESHHOLD LIMIT VALUE : See SECTION II -HAZARDOUS INGREDIENTS						
EFFECTS OF OVEREXPOSURE : No adverse health effects when handling intact parts.						
Exposure to stainless steel grinding dust and welding fumes may cause siderosis(spots on lungs) and severe respiratory tract irritation due to the effect of chromium, nickel, and other toxic alloy metals.						
EMERGENCY AND FIRSTAID PROCEDURES : In all cases seek medical assistance.						
INHALATION ?Remove person with symptoms to fresh air, thoroughly shower, and change cloths.						
INGESTION ?Seek medical assistance. EYE ?Flush with clean water for thirty minutes. SKIN ?Wash thoroughly with soap and water.						
SECTION VI. REACTIVITY DATA						
STABILITY : Stainless Steel metal is stable at room temperature. INCOMPATABILITY : (Materials to avoid) None known.						
HAZARDOUS DECOMPOSITION PRODUCTS : None.						
HAZARDOUS POLYMERIZATION : Will not occur.						
CONDITIONS TO AVOID : None known.	CONDITIONS TO AVOID : None known.					

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- page 3 of 3 -

SECTION VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Stainless Steel parts spills should constitute only a trip and fall hazard.

WASTE DISPOSAL METHOD :

Stainless Steel is valuable and may be recycled by foundries and secondary metal smelters.

Avoid melting stainless steel chips covered with metal cutting oil since this will cause fugitive emissions of dense smoke into the air.

Teflon parts may be disposed of in a sanitary land fill or recycled as Teflon plastic filler.

SECTION VIII. SPECIAL PR OTECTION INFORMATION

RESPIRATORY PROTECTION : (Specify Type) Use a NIOSH approved welding respirator when melting, welding or grinding stainless steel.

VENTILATION : Local exhaust ventilation is recommended when melting, welding or grinding stainless steel.

EYE PROTECTION : Wear appropriate eye protection when melting, welding, cutting, or grinding stainless steel.

PROTECTIVE GLOVES : Use proper gloves when welding. Use cut resistant gloves when handling metal chips.

OTHER PROTECTIVE EQUIPMENT : Wear clothing appropriate to the fabrication operation attempted with this product.

SECTION IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING :

Protect stainless steel parts from moisture and iron to avoid discoloration and contamination.

OTHER PRECAUTIONS : Never place wet stainless steel parts into a melting furnace -explosion hazard.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date complied. However, no representation, warrantee or guarantee is made to its accuracy, reliability, or completeness.

It is the user's responsibility to satisfy themselves as to the suitability or completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this product either singly or in combination with other substances. This MSDS is equivalent to OSHA Form 20.

MSDS prepared by : <u>Yi -Chun Wang (Mill Manager)</u>