

# MSDS

Material name and standards	Formula	English name	Product name
17-4 PH stainless steel GB/T1220-2007	05Cr17Ni4Cu4Nb		Mini Roth/MBT Brackets

## 1、 Material Composition

Composition	proportion	PEL	TLV
C	≤0.07		
Si	≤1.00		
Mn	≤1.00		
P	≤0.040		
S	≤0.030		
Cr	15.0~17.5		
Ni	3.00~5.00		
Nb	0.15~0.45		
Cu	3.00~5.00		

## 2、 physical property

Appearance-Smell-Acidity and alkaline			Viscosity
Solid state、 tasteless			/
Melting point or freezing point	Boiling point	Vapor pressure	Vapor density
Melting point 1400-1440 °C	/	/	/
Water-solubility	Volatility (by weight %)	density (water=1)	evaporation
/	/	7.78 g/cm3	

## 3、 Burning and explosion hazard

Burning point	Autoignition temperature	Deflagration than lower limit	Deflagration than cap
Extinguished means			
Fire that			
Abnormal combustion and explosion danger			

## 4、 health hazard

Workshops contact limit
The dangers of excessive contact
Scene emergency plan

## 5、 chemical reaction

chemical stability	avoidable measures
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steady ✓ instability				
There are dangerous decomposition products				
There are dangerous aggregation function possible impossible ✓		avoidable measures		
incompatibility(To avoid contact materials)	Water	strong oxidiz	Other:	

## 6、 Accidental release treatment measures

Accidental release process
Waste disposal method

## 7、 safeguard procedures

ventilation type	
Dry ventilated environment	
respiratory protection	
gauntlet	eye protection
Other protective equipment	

## 8、 Handling and storage

reservetemperature	No special requirements	thermal environment	freeze preservation	indoor	outdoor
lowest	highest				
Handling procedures					

## 9、 Toxicity test

No cell toxicity、 No late hairstyle allergic reactions、 No oral mucosa stimulation、 No short-term systemic toxicity、 No hereditary toxicity
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## 10、 Other

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