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@ TaiHai Technology

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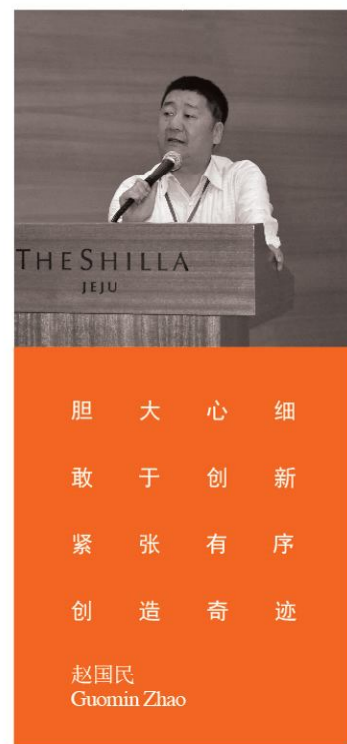
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Factory Introduction

钛海（集团）简介

Application Of Products

产品应用

Quality Control

检测和质量控制

Business Accountability

社会责任

Factory Introduction

攀枝花钛海科技（集团）有限公司由攀枝花市钛海科技有限责任公司、攀枝花鼎星钛业有限公司、攀枝花市金港钛业有限公司、建水县云川实业有限公司、四川钛海化工有限责任公司组建。目前产品覆盖钛精矿、酸溶性高钛渣、锐钛型和金红石型钛白粉。现年产金红石型钛白8万吨，锐钛型钛白粉3万吨，钛精矿5万吨，酸溶性钛渣5万吨。公司现已形成集矿山采选、钛矿冶炼、钛白粉生产为一体的钛产业链。多年来，公司所属企业先后获得“攀枝花市钛产业十强企业”、“攀枝花市外贸出口先进企业”、“中国海关A类管理企业”、“中国质量诚信企业”、“四川省高新技术企业”“攀枝花市环保先进企业”等多项国家、省、市荣誉称号。

我们期盼与您合作，携手共创双赢！

We look forward to working with you closely for a win-win future.

The Independent Design
Anatase & Rutile Producer Uses Titanium Slag As Raw Material In China



TaiHai Group has capacities of ilmenite with 80,000 mt/year, titanium slag with 50,000mt/year, Rutile TiO_2 with 80,000mt/year, Anatase TiO_2 with 30,000mt/year. TaiHai Group has formed and manages titanium industry chain from mineral separation & smelting to producing tio_2 . TaiHai Group has been rewarded by government many times, such as Certificate of Ten best Titanium Companies in Panzhihua City, Certificate of best Exporter, Certificate of Class A Corporate Authorized by Chinese Customs, Certificate of Chinese Reliable Corporate, Certificate of Advanced Technology Coporate in SiChuan Province, Certificate of Environment friendly Corporate and so on.

国内唯一自主设计，以钛渣为原料的锐钛型/金红石型二氧化钛生产商。

The Independent Design
Anatase & Rutile Producer Uses Titanium Slag As Raw Material In China

钛海（集团）简介

Factory Introduction



Application Of Products

作为一名成熟的硫酸法生产商，我们擅长提供稳定的质量和精准的产品定位。希望这本手册能帮助经销商实现专业的销售，同时指导最终用户正确的使用钛海/鼎星系列钛白粉产品。

THR-218采用铝盐和有机包覆，使之拥有钛白粉更高的光泽度，在涂料和油墨的应用表现更佳。

THR-219和THR-216均采用硅铝和有机包覆。THR-219的致密包覆技术使之在耐候性能更加出色。THR-216的硅铝包覆使之在（外）墙乳胶漆中展现更好的颜料性能。

THR-6666采用的 Al_2O_3 和有机（硅氧烷）包覆，在塑料（色母）使用中展现低粘度，易加工和耐黄变的性能。

PDA系列的锐钛型钛白粉含有极低的重金属（铅、砷、铬、汞等），适用于化纤钛白粉制造等特殊用途。

PDC系列钛白粉的BET数值范围经过精心地设计和控制，适合不同类型的催化钛白应用领域。

As a professional sulfate TiO_2 producer, we focus on stable quality and precise product positioning. We hope this brochure can help distributors achieve professional sales, while guiding the end user use our TiO_2 efficiently.

THR-218 coated by Zr/Al & organic, has better gloss, performing efficiently in coatings and printing ink.

THR-219/THR-216 are coated by Si/Al & organic.

THR-219 has dense coatings on particle and are more durable than others. THR-216 performs well as pigment in (ex&interior) emulsion.

THR-6666 is coated by Al & organic(silica), easily disperse and process, excellent resistance to high temperature.

PDA series Anatase TiO_2 has low metal content, such as Pb , Se , Hg , etc, suitable for fiber TiO_2 , stationery.

PDC series catalyst TiO_2 has different BET range, suitable for various applications.



The Independent Design
Anatase & Rutile Producer Uses Titanium Slag As Raw Material In China



THR-218	高分散	涂料、油墨
	High Dispersion	Coatings & Printing Ink
THR-216	高遮盖	乳胶漆（内外墙）
	High Hidingpower	Emulsion Exterior & Interior
THR-219	高耐候	用于户外硬质PVC，装饰纸，汽车漆
	High Durability	Rigid PVC Exterior, Wall Paper, Car Finishes
THR-6666	易加工	聚烯烃，PVC管材，包母粒
	Easily Process	Polyolefins, PVC pipes, Master-batch
PDA1000	高白度	涂料，塑料，造纸，橡胶，油墨等
	Good Whiteness	Coatings, Plastic, Paper, Rubber, Ink
PDA2000	高白度，高分散	涂料，塑料，造纸，橡胶，油墨等
		Coatings, Plastic, Paper, Rubber, Ink
	Good Whiteness & High Dispersion	化纤钛白粉基料，其它要求低重金属含量用途
PDC		Fiber TiO_2 , other application with low metal content
	高比表面积	催化剂钛白粉
	High BET	Catalyst TiO_2

产品应用

Application

产品应用-涂料和油墨

Application
Paint & Ink



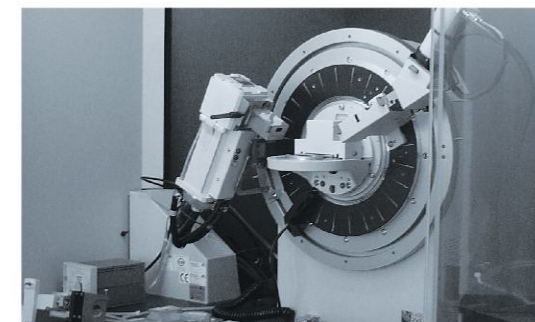
		218	216	219	6666	1000	2000	PDC
工业涂料 Industrial Coatings								
卷材涂料	Coil Coatings	o	o	o				
电泳漆	Electrodeposition Coatings	o						
家电漆	Appliance Coatings	o		o				
木器漆, 外用	Wood Finishes, Exterior		o					
家具漆	Wooden Furniture Finishes	o						
底漆	Primers	o				o	o	
汽车漆	Automotive Finishes			o				
修补漆	Vehicle Refinish Paints	o		o				
轨道交通涂料	Rail Vehicle Coatings	o						
航空航天涂料	Aircraft Coatings	o						
船舶涂料	Marine Coatings	o		o				
包装涂料	Packaging Coatings	o	o					
粉末涂料, 外	Powder Coating, exterior	o	o					
粉末涂料, 内	Powder Coating, interior	o	o				o	
建筑涂料 Building Coating								
哑光乳胶漆	Emulsion Paint, Matt	o	o			o	o	
高光乳胶漆	Emulsion, satin Gloss	o	o			o	o	
平光乳胶漆	Emulsion Paint, Gloss	o	o			o	o	
装饰涂料	Trade Decorative Paints	o	o	o				
硅树脂漆	Silicone Paint							
硅胶漆	Silicate Paints And Plaster					o	o	
水泥	Plaster, cement-bound							
合成树脂	Plaster, synthetic Resion-bound							
油墨 Printing Ink								
柔板油墨, 哑光	Flexographic Ink, Matt	o	o					
柔板油墨, 平光	Flexographic Ink, Gloss	o	o					
平板油墨	Offset Inks	o	o					
丝网油墨	Screen-printing Inks	o	o					
纺织油墨	Textile Printing Inks	o	o					
凹版油墨	Gravure Inks	o	o					

产品应用-塑料造纸其它

Application
Plastic & Paper & Other



		218	216	219	6666	1000	2000	PDC
热塑性塑料 Thermoplastic								
硬质PVC, 外墙	rigid PVC, exterior		o	o		o	o	
硬质PVC, 内墙	rigid PVC, interior	o	o	o	o	o	o	
软质PVC	Plasticised (soft) PVC				o	o	o	
聚氯乙烯糊树脂	PVC plastisols				o			
聚烯烃	polyolfins				o			
色母粒	masterbatch				o			
聚苯乙烯	polystyrenes and copolymers				o			
聚酰胺/聚丙烯	polyamides, polyacrylics			o				
聚碳酸酯	polycarbonate			o				
其它工程塑料	other engineering plastics							
热固性塑料 Thermoset								
注塑树脂	casting resins			o				
三聚氰胺	urea/melamine compounds			o				
酚醛树脂	phenolic compounds			o				
造纸 Paper								
装饰纸	paper laminates		o	o				
纸浆	paper pulp					o	o	
涂布纸	paper coatings	o	o	o				
水泥 Cement/Concrete						o	o	
陶瓷	Ceramics					o	o	
搪瓷	Enamels					o	o	
玻璃(纤维)	Glass/glass fiber					o	o	
电焊条	Welding					o	o	
脱硫脱硝	De-Sulfur/De-Nitration							o



完善的检测手段和先进的仪器

Advanced Detection Means And Instruments

可接受标准包括GB, ISO, ASTM以及客户指定标准

从原材料到成品的完整检测体系

应用实验检测

先进的仪器, 例如荧光光谱, X-ray衍射仪, 激光粒度仪, 色差计等

Accept the standards including GB, ISO, ASTM and customer specified standards

Complete detection system from raw materials to finished products.

Application of experimental detection

XFD, XRD, Mastersizer2000, Colorimeter, etc.



质量控制的核心是稳定

How To Quality Control

配套的矿山/钛渣工厂和硫酸厂确保关键原材料稳定

稳定的配方和严格的工艺控制

根据客户数据库进行批次筛选, 确保Delta E 小于0.5

安全的仓储和运输, 防潮防污

及时聆听客户的意见, 解决问题

Full industrial chain from mining to TiO₂

Stable formulation and strict process control

Batch selection as per customers' database ensure color difference (Delta E) is below 0.5

Well organized in storage and transportation, to keep cargo in dry and clean

To listen to our customers, to solve the problem



客人的关注

Customers' Concern

更好的性价比 More competitive

稳定的质量 Stable quality

完整美观的包装 Complete & Clean packing

准时的装运 Deliver in time

及时的沟通 Closely communication

共同的长远目标 Shared long term goal

企业责任

Business Accountability



攀枝花最大的私营企业之一
就业2000人



遵守环保法律法规



带动行业发展



回馈社会

One of Panzhihua's largest private enterprise, the employment of 2000 people.

Promote development of the industry

Comply with environmental regulations

To serve the society

The Independent Design
Anatase & Rutile Producer Uses Titanium Slag As Raw Material In China



环保与创新

Environmental Protection And Innovation

三废处理	Waste treat/recycle
废气 waste gas	酸解, 煅烧, 气流粉碎等工艺排放的废气经过电子除雾达到标准后排放 All waste gas should be cleaned before emission through electronic dust collector
废酸 waste acid	浓缩后用磷酸盐制品生产; 部分中和后达标排放 Concentrated acid to phosphate fertilizer plant, partly neutralized with CaO/Ca(OH) ₂
废渣 waste solids	提取酸解渣中可利用成份, 如TiO ₂ 废酸中和后的硫酸钙经过脱水, 送至水泥厂 Recycling TiO ₂ and other metal from waste solids CaSO ₄ slurry sent to concrete plant after drying
ISO 14000	认证中 In process

产品创新	Product innovation
在产品稳定的基础上不断提高品质	Upgrade on basis of stable quality
使产品具有更好的适用性和性价比	Better performance and more competitive
多用途/专用级产品相配合, 有效降低客户的库存	Multipurpose and special grade, reduce stock level

检测和质量控制

Environmental Protection



社会责任

Environmental Protection



MSDS (Material Safety Data Sheet)

安全性能数据表-钛白粉

Section 1 : Product 第一部分: 产品

Synonyms: Titanium Dioxide

产品名称: 钛白粉

CAS No.: 13463-67-7

CAS号: 13463-67-7

Molecular Weight: 79.90

分子量: 79.90

Chemical Formula: TiO2

分子式: TiO2

HS Number: 320611.1000

HS 编码: 3206111000

Section 2 : Composition/Information on Ingredients 第二部分: 成分

Component 主要成分	TiO2二氧化钛	ZrO2氧化锆	Al2O3氧化铝	SiO2二氧化硅
CAS number	13463-67-7	1314-23-4	1344-28-1	14808-60-7
HS Number	32061110			
Percentage含量	≥92.0%	0-4%	0-8%	0-6%
Hazardous危险性	No	No	No	No

Section 3 : Hazards Identification 第三部分: 危险分类

Emergency Overview 急救

Color : white颜色: 白色

Physical Form: powder外观: 粉末

Odor: odorless气味: 无

Chemically stability: stable 化学稳定性: 稳定

Product is non-combustible, Does not present a fire hazard or other immediate concern for emergency responders, except of a slippery condition if product gets wet. 非易燃物, 未列入火险因, 湿粉易滑。

Warning-Potential Health Effects: 健康提示

Eye contact: It (in powder) may cause mechanical eye irritation. 接触眼睛可能导致不适。

Skin contact: Powder may irritate skin if not wash off from skin promptly.不及时洗净可导致皮肤刺激。

Skin absorption: Not expected to be absorbed through intact skin. 皮肤接触不会吸收钛白粉。

Ingestion: No adverse health effects anticipated by this route. 吞咽不会造成不利影响。

Inhalation:

a.Acute effects: Exposure to dust may cause temporary drying effect and/or mild irritation of nose, throat and lungs, and may aggravate pre-existing respiratory conditions. 暴露于粉尘下, 可能造成鼻、喉及肺部的不适, 恶化呼吸环境。

b.Chronic effects/Carcinogenicity: Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans(group 2B) through inhalation. This classification is based on upon animal inhalation studies. Epidemiology studies do not suggest an increase risk of cancer in humans from occupational exposure to titanium dioxide. 慢性影响/致癌性: IARC已经将钛白粉列入通过吸入对2B人群可能致癌的物质。该分类已经通过动物实验。流行病学研究表明暴露在钛白粉中不会增加癌症风险。

Section 4 : First Aid Measures

第四部分: 急救措施

Inhalation: Remove to fresh air.

吸入: 移至空气新鲜处

Ingestion: If swallowed, give several glasses of water to drink. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person. Get medical attention.

吞食: 如不慎吞食二氧化钛, 应立即饮用数杯清水。可能会有呕吐症状, 但不要刻意引起呕吐。切忌给昏迷人员喂食任何东西。谨遵医嘱。

Skin Contact: Wipe off excess material from skin then flush skin with plenty of

water. Remove contaminated clothing and shoes.

皮肤接触: 用足量清水清洗即可。换洗受沾染的衣服和鞋子。

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

眼睛接触: 立即用清水冲洗至少15分钟。清洗时要注意眨几下眼。

NOTE TO PHYSICIAN: For inhalation, consider oxygen.

医师注意事项: 治疗吸入时, 可考虑供氧

Section 5 : Fire Fighting Measures 第五部分: 火警措施

Flashpoint: N.A. Method: N.A. LEL: N.A. UEL: N.A

Unusual fire hazards: None

非特殊火警物

Fire: Not considered to be a fire hazard. Will not burn

火警: 非易燃性物品, 不会燃烧

Explosion: Sealed containers may rupture when heated.

爆炸性: 加热时密封包装可能会破裂

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool. 灭火剂: 可使用任何灭火品。直接喷水可冷却火中的容器。

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.. Sealed containers of this material may rupture at moderate temperatures (release of water vapor)..

特别提示: 一旦发生火灾, 应穿着全套的保护装备和NIOSH规定的全脸式面罩和呼吸器。密封容器可能会在一定温度下破裂, 释放出水蒸汽

Section 6 : Accidental Release Measures 第六部分: 意外泄露

Soil Release: Dig holding area such as lagoon, pond or pit for containment.

Cover with plastic sheet or tarp to minimize spreading and protect from contact with water.

土壤: 建一个填埋地, 比如沟, 塘或深坑。填埋后用塑料布或防水布覆盖, 防止四处流溢。

Water Release: just wash out

水: 冲洗

Occupational Release:Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

室内泄露: 室内泄露时, 立即通风。让不必要的人员离开。穿合适的保护装备, 回收并放置到合适的容器内, 以备处理。避免产生灰尘。

Section 7 : Handling and Storage 第七部分: 处理与存储

Handling: 处理

a.Avoid contact with eyes. 避免眼睛接触

b.Do not breathe dust or mist. 不在粉尘、雾中呼吸

c.Avoid high concentrations of dust or mist air through the use of ventilation or other suitable controls. 通过通风或其它设施避免粉尘浓度过高。

Storage/储存

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage; observe all warnings and precautions listed for the product.

保存在紧密封口的容器内, 存放于凉爽通风干燥的地方, 防止包装物损坏, 遵守产品存放的要求与规则

Section 8 : Exposure Controls/Personal Protection 第八部分: 暴露控制和个人防护

Airborne Exposure Limits: None established.

空气暴露限制: 无

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is

generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

通风系统: 采用单独或整体式的通风系统, 降低工人受到的影响。建议使用单独的通风系统, 因为它能控制污染源的扩散。具体参照ACGIH, 工业通风操作规范手册。

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

个人呼吸器: 灰尘不影响视力的情况下, 使用半脸呼吸器。当无法确定暴露的级别时, 使用全脸式自动呼吸器。警告: 氧气缺乏时, 空气净化面具不能提供足够的保护。

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls.

皮肤保护: 穿戴密封的保护服, 包括鞋子, 手套, 试验外套, 围裙或其它。

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

眼睛防护: 戴上护目镜。工作区域有可清洗眼睛的水源和速湿设备

Clothing: Wear appropriate clothing.

衣服: 合适的衣服

Gloves: impervious gloves or specified by manufacturer

手套: 用密封手套或厂家规定的

Section 9 : Physical and Chemical Properties 第九部分: 物理和化学性能

Appearance: white powder

外观: 白色粉末

Odor: Odorless.

气味: 无

Color: white

颜色: 白色

Solubility: InSoluble in water.

溶解性: 不溶于水

Molecular Weight: 79.90

分子量: 79.90

Molecular Formula: TiO2

分子式: TiO2

Specific Gravity: 3.7-4.2

密度: 3.7-4.2

pH: neutral

PH: 中性

% Volatiles by volume @ 21C (70F): 0

21C时挥发性: 0

Vapor Density (Air=1): No information found.

气化密度: 无信息

Vapor Pressure (mm Hg): No information found.

气化压力: 无信息

Evaporation Rate (BuAc=1): No information founded

沸点: 无信息

Coefficient of Water/Oil Distribution: Not available

水/油性系数: 不适用

Section 10 : Stability and Reactivity 第十部分: 稳定性和反应性

Stability: Stable under ordinary conditions of use and storage.

稳定性: 正常情况下处理及储存是稳定的

Reactivity: Stable at normal temperatures and pressure

反应性: 常温常压下稳定

Conditions to Avoid: Stable at normal temperatures and pressure

避免情况: 常温常压下稳定

Polymerization: Will not polymerize.

聚合反应: 不会发生

Hazardous Decomposition Products: not occur

危险性分解产物: 不会发生

Hazardous Polymerization: Will not occur.

危险性聚合反应: 不会发生

Section 11 : Toxicological Information 第11部分: 毒性情况

Irritation: Inhalation of dust or mist can cause irritation of eyes, nose, throat and lungs.

刺激: 吸入可导致眼、鼻、喉及肺部的不适。

Eye contact: Powder/particle can cause mechanical irritation.

粉、粒可导致眼睛不适。

Skin contact: Can cause irritation if not wash off from skin promptly.

不及时洗净会刺激皮肤。

Skin absorption: Not expected to be absorbed through intact skin.

皮肤接触不会吸收。

Ingestion: Not expected to produce adverse effects.

吞咽不会造成影响。

Effects of Chronic exposure

Titanium Dioxide: In lifetime inhalation studies of rats, airborne, respirable –size titanium dioxide particles have been shown to cause an increase in lungs tumors at concentrations associated with substantial particle lungs burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related the particle size and the amount of exposed surface area that comes into contact with the lung. However, test with other laboratory such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiology studies do not suggest an increase risk of cancer in humans from occupational exposure to titanium dioxide.

Titanium dioxide has been characterized by IARC as possible carcinogenic to humans (Group 2B) through inhalation(Not ingestion) It has not been characterized as potential carcinogen by either NTP or OSHA. 研究表明: 吸入的钛白粉微粒会增加肺的负担, 导致肺部肿块和炎症。可吸入肺中的微粒会对人体健康产生不利的影响。其它实验室的研究表明, 吸入的微粒导致白鼠/仓鼠肺过度使用和发炎, 而这些会导致肺癌。医学研究表明, 职业性的接触钛白粉中不会增加癌症的几率。 IARC已经将钛白粉列入2B人群的可能致癌因(吸入)。 NTP和OHSAA未将钛白粉列入此项目中。

Alumina oxide, Zirconium oxide, Silicon oxide: Inhalation of dust particles composed of these material may cause drying of mucous membranes and irritation of nose, throat and lungs with nosebleeds, cough, difficulty breath or shortness of breath. Based on animal studies, long time inhalation exposure to high doses of ultrafine particles could lead pulmonary and inflammation and could be a factor in subsequent development of chronic lung disease. Silicon oxide does not induce the lung effects associated with crystalline silica. 吸入氧化铝, 氧化锆, 氧化硅等微粒可能导致粘膜干燥, 鼻、眼、喉及肺部不适, 喷嚏, 咳嗽, 呼吸困难或者窒息等症状。动物实验表明, 长时间在高剂量环境中吸入粉尘会导致肺部肿块和发炎, 这可能是发展为肺部疾病的诱因之一。结晶形态的氧化硅不会对人体肺部产生影响。

Medical conditions Aggravated: Respiratory disorder 恶化症状: 呼吸紊乱。

Toxicity: Titanium dioxide

Oral LD 50 >10,000 mg/kg (rate)

Dermal LD 50 >10,000 mg/kg (rabbit)

Inhalation LD (4 hr) >6.8 mg/l (rat)

SECTION 12: ECOLOGICAL INFORMATION 第12部分: 生物影响

No data available.

Section 13 : Disposal Considerations 第13部分: 处理建议

Whatever cannot be saved for recovery or recycling should be managed in an

appropriate and approved waste disposal facility. Dispose of container and unused contents in accordance with federal, state and local requirements. 产品无论不能回收或回收, 都要用合适的设备来处理。容器的处理和废弃的部分符合官方的要求。

Section 14 : Transport Information 第14部分: 运输限制

No regulated in Hazard class

不属于危险类别

IMO/IMDG regulation information: not under IMO/IMDG

IMO/IMDG 规定信息: 未列入IMO/IMDG规定

SECTION 15 REGULATORY INFORMATION 第15部分: 管理信息

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

DSL: Yes

NDSL: No

SECTION 16 OTHER INFORMATION 第16部分: 其它信息

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Other Information

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