

安全資料表

Safety Data Sheet

一、化學品與廠商資料 Identification of Chemicals/Suppliers

化學品名稱：VIVATEC 500 Chemical Name: VIVATEC 500
其他名稱：環保型橡膠加工油 Another Name：Low Aromatic Rubber Process Oil
建議用途及限制使用：無 Recommended Usage and Limits：Non
製造者、輸入者或供應者名稱、地址及電話： 漢聖集團 寧波大榭開發區環島北路 99 號 電話:009-86-574-55831758 傳真: 009-86-574-55831759 E-mail： yanbo.hu@hur.com Information on Producer/Supplier Name、Address、Phone：
緊急聯絡電話/傳真電話：009-86-574-26883988 Emergency Phone/Fax：

二、危害辨識資料 Hazard Identification

化學品危害分類：非危險物或有害物 Chemical Hazard Classify：The product is not dangerous/is not a dangerous preparation and therefore free of labeling.
標示內容：- Label Content：- 圖示符號：- GHS label elements 警示語：- Signal word：- 危害警告訊息：- Hazard statements：- 危害防範措施：- Precautionary statements：- 其他危害：- Other Hazards：-

三、成分辨識資料 Identification of Ingredients

純物質 Single：

中英文名稱：烴類混和物

English Name : Mixture of Hydrocarbons
同義名稱 : -
Synonyms : -
化學文摘社登記號碼(CAS No.): 64741-88-4
危害成分(成分百分比): 根據歐盟法規, PCA 含量少於 3%--此項排除致癌可能性, 產品沒有被列為危險物質。
Percentage of Chemical Ingredient (%)

混合物 Mixture :

化學性質 :		
Chemical Properties :		
危害成分之中英文名稱 Hazardous Components Name	化學文摘社登記號碼(CAS No.):	濃度或濃度範圍(成分百分比) Concentration/Percentage

四、急救措施 First Aid Measures

不同暴露途徑之急救方法 · 吸入：如果吸入產品的煙氣/油霧/蒸汽而發現症狀，在確保安全的情況下，把受傷人員抬到安靜並通風良好的地方。如果呼吸仍然困難，尋求醫療援助。如果受傷人員失去意識和呼吸，確保呼吸道無障礙，由經過培訓的人員做人工呼吸。如果必要，做外部心臟按摩，獲得醫療專業意見。如果受傷人員是無意識的呼吸，放在可呼吸的位置，如果必要，可以輸氧。在環境溫度下，由於物質的蒸汽壓很低，吸入是不可能的。症狀是：在環境溫度下，吸入是不可能的，在高溫下過多的煙氣，油霧或蒸汽刺激呼吸道。 · 皮膚接觸：脫去被污染的衣服、鞋子、安全處理。如果皮膚刺激、腫脹、發展並持續尋求醫療監護。當使用高壓設備時，注射有可能發生，如果發生高壓傷害，立即取得職業醫生監護，不要等到症狀發展。對於較小的熱灼傷，冷卻灼傷部位，用流水冷卻至少五分鐘，直到疼痛減輕，避免身體降低體溫。用肥皂和水沖洗受影響的區域。嚴重燙傷，尋求醫療處理。如果接觸高溫產品，有燙傷的可能。症狀：皮膚乾燥，頻繁或長時間接觸會產生刺激。 · 眼睛接觸：如果熱的產品飛濺到眼睛，應該立即冷卻驅散熱量，用冷的流沖洗至少 5 分鐘。立即找專家進行評估和處理。如果發生刺激、視覺模糊、腫脹並持續，尋求專家幫助。 症狀：輕微刺激。 · 食入：如果發生攝入不要通過嘴給失去知覺的人任何物品。不要引發嘔吐，尋求醫療處理，不要等到症狀發展。症狀：幾乎沒有發生過，如果有，可能發生噁心或腹瀉。 The First Aid Measures for Different Exposure Routes : · Inhalation : If symptoms develop due to inhalation of product fume/mist/vapor, remove the injured person to a quiet and well-ventilated area if safe to do so. If breathing is still difficult, seek medical assistance. If the injured person is
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unconscious and breathing, make sure the airway is clear and provide artificial respiration by trained personnel. If necessary, do external cardiac massage. Obtain medical professional advice. If the casualty is unconscious for breathing, place in a breathing position and administer oxygen if necessary. Inhalation is not possible due to the low vapor pressure of the substance at ambient temperature. Symptoms are: at ambient temperatures, inhalation is impossible, at high temperatures excessive fumes, oil mist or vapors irritate the respiratory tract.

·Skin Contact : Remove contaminated clothing, shoes, and dispose of safely. If skin irritation, swelling,

develop and continue to seek medical supervision. Injection may occur when using high pressure equipment, if high pressure

In case of pressure injury, obtain professional medical supervision immediately, do not wait for symptoms to develop. For minor thermal burns, cold

If the burnt area is burned, cool it under running water for at least five minutes until the pain subsides and prevents the body from hypothermia. use

Wash affected area with soap and water. Severe burns, seek medical attention. If exposed to hot products,

There is a possibility of burns. Symptoms: Dry skin, frequent or prolonged contact can cause irritation.

·Eye Contact : If hot product splashes into the eyes, the heat should be cooled immediately and flushed with a cool stream for at least 5 minutes. Seek expert evaluation and treatment immediately. If irritation, blurred vision, swelling occurs and persists, seek professional help.

·Ingestion : If ingestion occurs do not give anything by mouth to an unconscious person. Do not induce vomiting, seek medical attention, do not wait for symptoms to develop. Symptoms: Rarely, if ever, nausea or diarrhea may occur.

最重要症狀及危害效應：包括急性的和慢性的存在肺功紊亂的人，會增加曝露影響的敏感性。如果有嘔吐發生，有呼吸風險，如果吞咽，有呼吸風險。

The Most Important Symptoms and Hazardous Effects : Individuals with deranged lung function, both acute and chronic, have increased susceptibility to the effects of exposure. Respiratory risk if vomiting occurs, respiratory risk if swallowed.

對急救人員之防護： -

The Protection of First Aider : -

對醫師之提示：處理應根據症狀，減輕症狀和影響。

Notes to Physicians : Treatment should be symptomatic, relieving symptoms and effects.

五、滅火措施 Fire Fighting Measure

適用滅火劑：泡沫、水霧、乾粉、二氧化碳其它惰性氣體、沙子和泥土。不要使用直流水柱直接噴射燃燒的產品,會發生飛濺而使火災蔓延。避免在同一平面上同時使用水和泡沫,因為水會破壞泡沫。

Suitable Fire Extinguishing Media : Foam, water mist, dry powder, carbon dioxide and other inert gases, sand and soil. Do not spray the burning product directly with a direct-flow water jet, as splashing will occur and the fire will spread. Avoid using both water and foam on the same surface as water will destroy the foam.
滅火時可能遭遇之特殊危害：不完全燃燒產生的複雜混和物如固體和液體顆粒物散發在空氣中包括一氧化碳，一些不確定的有機和無機混和物。 Specific Hazards May be Encountered During Fire-Fighting : Incomplete combustion produces complex mixtures of solid and liquid particulates emitted in the air including carbon monoxide, some indeterminate organic and inorganic mixtures.
特殊滅火程序：- Specific Fire-Fighting Methods : -
消防人員之特殊防護設備：在受限空間或者通風較差的空間,穿耐火防護服和帶有防護面罩的正壓式呼吸器。 Special Equipment for the Protection of Firefighters : In confined or poorly ventilated spaces, wear fire-resistant protective clothing and positive pressure respirator with face shield.

六、洩漏處理方法 Accidental Release Measures

個人應注意事項：對於非應急人員 安全帽、防靜電防滑安全鞋。小量洩漏,標準的防靜電工作服就可以了.大量洩漏,全身防化學防靜電材料。 防化學品的防護手套,特別對於芳香烴,聚乙烯醇手套不防水,不適合緊急情況下 使用。 防靜電的防滑的安全鞋或靴。如果必要的話，可以是耐熱的。 如果噴濺,有接觸到眼睛的可能,防護鏡/防護面罩要使用。 具有過濾塵和有機蒸汽的半面罩或全面罩呼吸器或者具有自給功能的呼吸器.根據洩漏程度和可預測的曝露程度使用.如果形式無法估計或有可能缺氧,須使用 自給式呼吸器。 Personal Precautions : For non-emergency personnel Hard hat, anti-static non-slip safety shoes. For a small amount of leakage, standard anti-static work clothes are enough. For a large amount of leakage, the whole body is made of anti-chemical and anti-static materials. Protective gloves against chemicals, especially aromatic hydrocarbons, polyvinyl alcohol gloves are not waterproof and are not suitable for emergency use. Anti-static non-slip safety shoes or boots. It can be heat resistant if necessary. If splashed, there is a possibility of contact with eyes, and protective glasses/face shields should be used. Half- or full-face respirator with filter for dust and organic vapors or self-contained respirator. Use according to the degree of leakage and predictable exposure. If form cannot be estimated or hypoxia is likely, use self-contained breathing apparatus.
環境注意事項：防止產品進入下水道,河流或其它水體.如果有必要,用幹土、沙子或類似不燃的材料做成圍堰。 Environmental Precautions : Prevent product from entering sewers, rivers or other

water bodies. If necessary, make a cofferdam with dry earth, sand or similar non-combustible material.

清理方法：如果沒有風險，首先停止洩漏源。避免直接接觸洩漏的物料，站在上風。大量洩漏，用泡沫覆蓋，限制火災。不要用高壓水流。用適當的方法收集產品，轉移產品和其它污染物到適當的容器，或重複利用或安全處置。

如果發生土壤污染，移走被污染的土壤，依據當地的法規進行處理。在建築物內或受限空間，確保有足夠的通風。讓無關人員離開溢油區域，向應急人員發出報警。除了小量溢油，任何行動的可行性都應經過評估和仔細考慮。如果可能，讓一個經過培訓，能勝任的人來管理應急。

使用特殊的防護設備，程式和人員培訓。用不燃的適合的材料吸收溢出產品。如果在封閉水域發生小量洩漏，用浮動的柵欄或其它設備包容產品，用特定的漂浮吸附劑吸收收集產品。如果可能，在開放水域發生大量洩漏，用浮動圍欄或其它機械方法收容產品。如果這不可能，控制蔓延，用撇或機械方法收集。分散劑的使用要諮詢專家或經過政府部門的批准。收集到的產品和其它材料裝在適當的罐或容器中供恢復或安全處置。消除一切點火源(例如電、火花或明火)。如果需要，根據所有適用的法規通知相關的政府當局。

Methods for Cleaning up : If there is no risk, stop the source of the leak first. Avoid direct contact with spilled material and stand upwind. Large spill, cover with foam, contain fire. Do not use high pressure water streams. Use appropriate methods to collect product, transfer product and other contaminants to appropriate containers, and either reuse or safely dispose of.

In case of soil contamination, remove contaminated soil and dispose of in accordance with local regulations. In buildings or confined spaces ensure adequate ventilation. Let irrelevant personnel leave the oil spill area and send an alarm to emergency personnel. Except for small spills, the feasibility of any action should be assessed and carefully considered. If possible, have a trained and competent person manage the emergency.

Use special protective equipment, procedures and training of personnel. Absorb spilled product with non-combustible suitable material.

If small spills occur in enclosed waters, contain product in floating booms or other devices and absorb product with specific flotation absorbent. If possible, in case of large spills in open water, contain product with floating enclosures or other mechanical means. If this is not possible, contain spread and collect by skimming or mechanical means. Use of dispersants should be consulted or approved by a government authority. Collected product and other materials are placed in appropriate cans or containers for recovery or safe disposal. Eliminate all sources of ignition (such as electricity, sparks or open flame). If required, notify relevant government authorities in accordance with all applicable regulations.

七、安全處置與儲存方法 Handling and Storage

處置：使用前取得特別指導。確保所有關於可燃產品的操作和儲存的法律得到遵守。避免皮膚接觸，不要吸入煙汽。不要攝入。當處理熱的液體產品進行散裝灌裝時，避免飛濺。處理熱的產品時，避免燙傷。

有滑倒的危險 使用和存存只能在室外或通風良好的地方。避免產品釋放到環

境中。採取防靜電的措施。採用充中的個人防護用品。個人防護用品更多的資訊請看曝露部分。建議防止火災和爆炸遠離點火源，禁止抽煙。

Handling : Obtain special instructions before use. Ensure that all regulations regarding handling and storage of flammable products are followed. Avoid skin contact and do not breathe fumes. Do not ingest. Avoid splashing when handling hot liquid products for bulk filling. Avoid burns when handling hot product.

Slip hazard Use and store only outdoors or in a well-ventilated area. Avoid release of product into the environment. Take anti-static measures. Use rechargeable personal protective equipment. See the Exposures section for more information on personal protective equipment. Advise to prevent fire and explosion Keep away from ignition sources, No smoking.

儲存：儲存區佈置儲罐的設計和操作程式必須遵守國家和地方的法律。儲存設施的設計 應該有足夠的圍堰，以防止洩漏或溢油時污染水和地面。清理、檢查和維護儲存 罐的內部結構，必須由國家、地方或公司的制度規定由適當的設備和有資質的人 來做。推薦容器的材料為低碳鋼或不銹鋼。一些合成材料可能不適合做容器或者 容器的襯裡依賴於材料規格和預期使用。和製造商一起檢查相容性。儲存在原始 的容器中，保持容器密閉並貼有標籤。

儲存相容性的建議 不要和強氧化劑儲存在一起。空的容器可能含有可燃產品的殘留物。不要焊接，鑽也或者焚燒空的容器，除非已經清理的特別乾淨。

Storage : The design and operating procedures of storage tanks must comply with national and local laws. Storage facilities should be designed with adequate cofferdams to prevent water and ground contamination from spills or spills. Clean, inspect and maintain the interior of storage tanks Construction. Must be done by national, local or company regulations with proper equipment and qualified personnel. Recommended vessel material is mild steel or stainless steel. Some synthetic materials may not be suitable for vessel or vessel lining depending on material specification and intended use. Check compatibility with the manufacturer. Store in original container, keep container tightly closed and labeled.

Advice on storage compatibility Do not store with strong oxidizing agents. Empty containers may contain residues of combustible product. Do not weld, drill or incinerate empty containers unless they have been cleaned exceptionally clean.

八、暴露預防措施 Exposure Control

工程控制： DNEL 職工

Engineering Control :

控制參數：

·八小時日時量平均容許濃度/短時間時量平均容許濃度/最高容許濃度：

·生物指標： 5.4mg/m³

空氣限值

職業接觸限值 TWA 5mg/m³ 8h ACGIH

監視程序的選擇應當依據國家法規或勞動合同。

如果沒有那樣的法規，直接暴露的煙/塵應該通過空氣取樣來評估。

Control Parameters :
·TWA/STEL/Ceiling :
·Biotic Index :
個人防護設備：適當的工程控制 如果物料加溫處理，設備要有局部排風，接觸高溫的產品時可能被燙傷。雖然這些對健康不可能造成嚴重的傷害，避免呼吸道的刺激，遵守良好的工作實踐，確保工作區域良好的通風還是必要的。操作和儲存的溫度盡可能的低，以減少煙氣的產生。減少暴露在煙氣中，如果在受限空間中處理熱的產品，要提供有效的通風。在可用氧檢測之前，不要進入空的儲罐。 • 呼吸防護：如果的氣溶膠或霧氣形成，戴有A2, A2/P2, ABEK慮盒的面罩。在受限空間處理產品時，應當使用經過批准過的呼吸系統防護設備:帶有過濾有機蒸汽濾盒的防護面罩.如果暴露水準難以斷定或者有缺氧的可能,只能用自給式呼吸器。 • 手部防護：當處理化學產品時，必須戴防護手套，手套必須定期檢查,如果發生磨損、穿孔或污染,必須更換。手套的適合材料：橡膠、氯丁橡膠、氟橡膠。處理熱的熔融產品，必須戴長袖的耐熱手套。環境溫度下使用符合EN374標準的手套。 • 眼睛防護：如果有飛濺的可能,整個頭部和臉部都要防護。在環境溫度下：戴有側面保護的安全眼鏡。 • 皮膚及身體防護：處理熱的物料，要穿耐熱的防護服。耐熱的防滑鞋。 處理常溫產品時，長袖工作服，工作鞋，工作結束後全部更換,洗澡防止產品轉移到衣服和內褲上。裝卸操作，戴安全帽，如有必要，戴全臉面罩。如果是熱的產品，須戴全臉面罩。 Personal Protective Equipment (PPE) ·Respiratory Protection : Appropriate Engineering Controls If material is heated, equipment must have local exhaust. Scalds may result from contact with hot product. Although these are unlikely to cause serious harm to health, it is essential to avoid respiratory tract irritation, observe good work practice, and ensure good ventilation of the work area. Operate and store at as low a temperature as possible to minimize fume generation. Reduce exposure to fumes and provide effective ventilation if handling hot product in confined spaces. Do not enter empty storage tanks until available oxygen has been tested. ·Hand Protection : When handling chemical products, protective gloves must be worn. Gloves must be checked regularly and replaced if worn, punctured or contaminated. Suitable materials for gloves: Rubber, Neoprene, Viton. When handling hot molten product, long-sleeved heat-resistant gloves must be worn. Use gloves conforming to EN374 at ambient temperature. ·Eye Protection : If there is a possibility of splashing, the entire head and face should be protected. At ambient temperature: Wear safety glasses with side protection. ·Skin and Body Protection : Wear heat-resistant protective clothing when handling hot materials. Heat-resistant non-slip shoes. When handling products at room temperature, long-sleeved work clothes and work shoes should be replaced after work. Take a bath to prevent the product from

transferring to clothes and underwear. For loading and unloading operations, wear a hard hat and, if necessary, a full-face mask. If product is hot, full face mask must be worn.
衛生措施：不要吸入蒸汽，避免接觸眼睛和皮膚，穿適當的防護服，手套和面罩，避免接觸熱的產品。 Hygiene Procedures：Do not breathe vapor, avoid contact with eyes and skin, wear suitable protective clothing, gloves and face shield, avoid contact with hot product.

九、物理及化學性質 Physical and Chemical Properties

外觀（物質狀態、顏色等）：黏性液體/ 褐色 Exterior：	氣味：和 Odor：
嗅覺閾值：- Odor Threshold Value： -	熔點： >250 度 Melting Point：
pH 值：- PH Value： -	沸點/沸點範圍： Boiling Point：
易燃性（固體、氣體）：- Flammability (Solid Phase, Gas Phase)： -	閃火點：271 Flash Point：
分解溫度： - Decomposition Temperature： -	測試方法（開杯或閉杯）：ASTM D 92 Test Method（Open Cup or Close Cup）：
自燃溫度：- Spontaneous Temperature： -	爆炸界限： Exposure Limits：
蒸氣壓：<0.01hPa Vapor Pressure： -	蒸氣密度： Vapor Density：
密度：0.949 g/m3 Specific Gravity： -	溶解度：不溶 Solubility in Water：insoluble
辛醇／水分配係數（log Kow） - Octanol/Water Partition Coefficient(log Kow)： -	揮發速率 Evaporation Rate：

十、安定性及反應性 Stability and Reactivity

安定性 Stability： -
特殊狀況下可能之危害反應： - Possible Hazardous Reactions Under Specific Condition： -
應避免之狀況：過度地加熱超過推薦的最高處理和儲存溫度可以造成物質降解為刺激性的蒸汽和煙氣。 Conditions to Avoid： Excessive heating above the maximum recommended handling and storage temperatures can cause the material to degrade into irritating vapors and fumes.
應避免之物質：接觸強氧化劑(過氧化物,鉻酸鹽等等)可造成火災危險

Materials to Avoid : Fire hazard from contact with strong oxidizing agents (peroxides, chromates, etc.)

危害分解物：不完全燃燒可能產生碳、硫、氮的氧化物和相同元素的不確定的有機混合物。在環境溫度的標準條件下不會產生。

其它資訊：分解發生在溫度>350°C，物質在通常的所有的環境溫度情況下是穩定的。釋放到環境中也是如此。

Hazardous Decomposition Products : Hazardous decomposition products: Incomplete combustion may produce carbon, sulfur, nitrogen oxides and undefined organic mixtures of the same elements. It will not be produced under standard conditions of ambient temperature.

Additional information : Decomposition occurs at temperatures >350°C. Substance is stable at all ambient temperatures in general. Release to the environment is also true.

十一、毒性資料 Toxicological Information

暴露途徑：-

Exposure Route：-

症狀：-

Symptoms：-

急毒性：-

Acute Toxicity：-

慢毒性或長期毒性：-

Chronic Toxicity or Long-Term Toxicity：-

十二、生態資料 Ecological Information

生態毒性：-

Ecological Toxicity：-

持久性及降解性：-

Persistence and Degradability：-

生物蓄積性：-

Bioaccumulative Potential：-

土壤中之流動性：-

Mobility in Soil：-

其他不良效應：-

Other Adverse Effects：-

十三、廢棄處置方法 Waste Disposal Method

廢棄處置方法：剩餘的、未被使用過的或者是偏離指標的可以根據特性和組成成份可以再利用或者當作廢物處理。廢物處置可以根據當地的法規直接處理，或者交給有資質的公司處理。廢物可以進行焚燒處理，在國家授權的地方，根據污染限制，安全法規和空氣質量法規要求。

最終的使用者有責任根據實際的使用物料、污染物選擇最適用的代號。污染包裝的廢物處理代號 150106 廢包裝物、吸附劑、擦布、過濾物料和其它沒有特別

規定睥防護服等。

包裝物的推薦空包裝的處理：聯繫原始供應商或者交給有資質的公司處理。不要焊、割、鑽孔或者燒空的容器，除非清理乾淨並確認是安全的。空的包裝可能含有可燃的殘餘物。不要重新使用空的、未清理乾淨的容器用於其它目的。通常的資訊 處理剩餘的或者偏離指標的物料或者從可預知的使用中產生的廢物，不存在特定的風險。

Waste Disposal Method : Surplus, unused or deviated from specification can be reused or treated as waste according to characteristics and composition. Waste disposal can be handled directly according to local regulations, or handed over to a qualified company for disposal. Waste can be disposed of by incineration, where authorized by the state, in accordance with pollution limits, safety regulations and air quality regulations.

The final user is responsible for choosing the most suitable code according to the actual materials and pollutants used. Waste disposal code for contaminated packaging 150106 Waste packaging, adsorbents, wiping cloths, filter materials and other non-specific protective clothing.

Recommended disposal of empty packaging: contact the original supplier or hand it over to a qualified company. Do not weld, cut, drill, or burn empty containers unless cleaned and known to be safe. Empty packages may contain combustible residues. Do not reuse empty, uncleaned containers for other purposes. General Information There is no specific risk in the disposal of surplus or off-spec material or waste from foreseeable use.

十四、運送資料 Transport Information

聯合國編號： -

The United Nations Number (Un-No) : -

聯合國運輸名稱： -

UN Proper Shipping Name : -

運輸危害分類： -

Transport Hazard Class : -

包裝類別： -

Packing Group : -

海洋污染物（是／否）： -

Marine Pollutant (Yes/No) : -

特殊運送方法及注意事項： -

Special Transportation Measure and Precautionary Conditions : -

十五、法規資料 Regulation Information

適用法規： 雇員限制： 根據“青少年保護工作指導方針”(94/33/EC)，遵守對青少年雇用的限制。

根據“婦女保護指令”(92/85/EEC)，遵守對孕婦和哺乳期婦女的雇用 限制。

Applicable Regulations : Employment Restrictions: Restrictions on the employment of juveniles are observed in accordance with the "Guidelines for the Protection of

Young Persons at Work" (94/33/EC). Comply with restrictions on the employment of pregnant and lactating women in accordance with the Women's Protection Directive (92/85/EEC). 【職業安全衛生法】 - Occupational Safety and Health Act 【危害性化學品標示及通識規則】 - Hazardous Chemical Labeling and Communication Rules

十六、其他資料 Other Information

參考文獻 Reference	-	
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