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AA½A a Why is the release of large amounts of sulfur dioxide in the atmosphere AAA undesirable? b What is done to limit the extent of these emissions in sulfuric acid plants? 13. AA½A Under the title eAAA Sulfuric acid: the worldAAA most wanted chemicalAAA, write a paragraph that uses the words: fertilizers, contact process, smelting, converter, absorption tower, equilibrium, reaction rate and catalytic oxidation. 14. Describe two ways that expenses are minimized in the contact process. 15. Construct a concept map that includes the following terms: sulfuric acid, fertilizers, oxidation, contact process, converter, absorption tower, oxidation, reaction rate, equilibrium yield and catalyst 16. In the commercial production of sulfuric acid, sulfur dioxide is oxidized to sulfur trioxide by oxygen gas. a) Write a balanced chemical equation for the reaction. b) Write an expression for the equilibrium constant for the reaction. c) Predict the reaction conditions that would favor maximum equilibrium yield of sulfur trioxide. Explain your reasoning. d) How would these conditions affect the rate of reaction? e) Discuss the conflict that arises in the choice of reaction conditions for the contact process and the strategies used to deal with this conflict. 17. AA½A Your firm has asked you to design a new sulfuric acid plant, briefly list important factors that you would consider when deciding: a) whether to use powdered sulfur from a local supplier or molten sulfur transported a greater distance b) if sulfur were to be burnt in air or oxygen c) whether to obtain sulfur dioxide by burning sulfur or from the waste gases of a copper smelter d) whether to use air or oxygen for the reaction in the converter. 18. Oleum Term used to describe fuming sulfuric stekram(8102 ©Ata sadalenot ed sepAhlim 062 e Jmcc.puorgcm(sadalenot ed sepAhlim 052 ed siam aires laidnum ofAŠAudorp a .2102 ©Ata euq es-avarepsE 2102 - 1102 moc es-manoicaler soremAAn setsE .dLL gnilusnoC & hcræseR tnahcreM .ed sodamltse sodaD sadalenot ed sepAhlim 7 soocorraM sadalenot ed sepAhlim 41 aissAAR sadalenot ed sepAhlim 61 aidnA sadalenot ed sepAhlim 73 S.U sadalenot ed sepAhlim 47 anihC sadalenot ed sepAhlim 132 odnum ocirAÁflus odicjA ed launa ofAŠAudorp .sairtsAAdni satium me sodasu ofAš siauq so sodot anonaporp moc lonef e ocirdAroulf odicjA ed ofAŠAacirbaf an .iAtse sosu sortuo sotium sues ertnE .otnemgjp mu omoc .olpmexe rop .odasu .oincAtit ed odixAÁid ed ofAŠAacirbaf an e 6 adimallop me oditrevnoc ©A euq .matcalorpac rezaf arap odasu ©A m©AbmaT .sotnemila arap satal rezaf arap odasu .ohnatse ed anif adamac amu me otreboc res ed setna .ehcebacse omoc adicehnoc .ošAa ed apahc ad eicÁfrepus ad azepmil an e ocniž ed ofAŠAacirbaf an e erboc ed ofAŠAacirbaf an .olpmexe rop .latem ed otnemassecorp on odazilitu etnemalpma A .ocirAÁflus odicjA ed sosU 1 arugiF .etneicifed-erfoxne me etnatropmi etnemralucitrap etnazilitref mu ©A euq .oinA ma ed otافل rezaf arap odasu ©A m©AbmaT .oinA ma ed sotafsof so e oicljAc ed otafsofnegordiid .sotafsof setnazilitref so rezaf arap .zev aus rop .odasu .ocirAÁsof odicjA rezaf arap adasu ©A ocirAÁflus odicjA ed edaditnaug roiam a egnol eD ocirAÁflus odicjA ed sosU .sairtsAAdni sa sadot esauq rop soirjAšsecen sotsopmoc ed sanetnec .etnemlaretil .rezaf arap odasu A .acimAúq airtsAAdni alep sotief setnatropmi siam sotsopmoc sod mu ©A ocirAÁflus odicjA o ezimonocE evaS yrtsimehC ecneicS emoH osepe me 4OS2H %08 e 3OS %02 m©Átnoc muelo %02 .olpmexe rop .missA muelo ed megatnecrep omoc adaredisnoc ©A muelo on 3OS ed megatnecrep A muelo ed % .91 aicnAÁrapa an ocnarb-arof e odibrut etnemlamron A .setrof sotnop soirjAv me sodartnocne .otnatrop .4OS2H me 3OS ed sepAŠAšisopmoc sairjAv m©Átnoc omoC .4OS2H %001 me odivlossid 3OS me etsisnoc e 3202 3202 sonem olep arap atsiverp etnedneca aicnAAdnet a moc rolac ed serodacort ed s©Avarta sodassap ofAš missa e setneuq otium ofAš sesag sO .emulov rop .oinAÁgixo ed %01 e erfoxne ed odixAÁid ed %21-01 ed acrec m©Átnoc etnegreme sjAg o odasu ©A ra ed ossexce o omoC .acitsAretcarac luza amahc amu moc amieug erfoxne O .K 0031 ed acrec me oces ra ed ofAšolpxe amu me odamieug e ahlanrof amu me odazirevluq ©A odidnuf erfoxne O .erfoxne ed odixAÁid me oditrevnoc res oriemirp eved .amirp-air©Atam a ©A erfoxne o eS erfoxne ed odixAÁid me erfoxne ed ofAšrevnoc)b .Jodasu ©A otsi("otepese" ocirAÁflus odicjA ed odarepuer m©Abmat e Jotaoneporpiltem-2 litem(llop ed ofAŠAacirbaf an otudorpbus mu .oinA ma ed otافل ed ritrap a oditbo ©A m©Abmat ocirAÁflus odicjA O .orref ed otافل ed oir©Anim mu .setrip ed ocirAÁflus odicjA ues ed airoiam a zaf anihC a .ralucitrap mE .ocirAÁflus odicjA omoc o-odnarepuer ofAšse arefsomta a arap erfoxne ed odixAÁid o marassap etnemlanoicidart euq satnalp sa omoc .odnatnemua jAtse ossi e otافل ed oir©Anim ed arudassa ed ritrap a erfoxne ed odixAÁid omoc oditbo ©A erfoxne od %53 ed acrec odnum o odot mE .ocniž e leuqAn .erboc meulcni otافل ed soir©Anim sues ed ritrap a sodacirbaf siatem sortuo .obmuhe ed ofAŠAacirbaf an .olpmexe rop .erfoxne ed odixAÁid e odixAÁ mu ramrof arap sodarrot ofAš e sotefluss omoc merroco sociljAtem soir©Anim sotiuM .latem ed ofAŠAanifer ed erfoxne ed odixAÁid omoc ©A erfoxne ed etnof etnatropmi artuo .sacimAúq samirp-sair©Atam uo sievAtsubmoc omoc sodasu meres ed setna sodivomer res meved siauq so sobma .oinAÁgordih ed soterufuss omoc socineÁgro otnat .erfoxne ed sotsopmoc mAÁtnoc setsE .oelA e larutan sjAg ed ofAŠAarepuer aus a ©A erfoxne ed etnatropmi siam etnof a etnemlicaF erfoxne ed ofAŠAartxE)a(ocirAÁflus odicjA arap erfoxne ed odixAÁirt ed ofAšrevnoc)erfoxne ed odixAÁirt arap erfoxne ed odixAÁid ed ofAšrevnoc)erfoxne ed odixAÁid arap erfoxne ed ofAšAartxE)a :sesaf ortauq met ocirAÁflus odicjA ed ofAŠAudorp ed ossecorp O ocirAÁflus odicjA ed ofAŠAacirbaF)c()c(.adizudorp ©A m©Abmat ofAsserp atla ed ropav ed adalenot amu .ocirAÁflus odicjA ed adalenot amu ed ofAŠAacirbaf aN .ropav me aditrevnoc ©A etnadnucric ariedlac ed sobut son augjA a e K 007 ed acrec a sodaregirfer ofAš sesag sO .JoicAdrepseD ed rolac ed Sulfur Diagers to Sulfur Triophid (the contact process) A typical plant containing a cilnondric vessel that acts as a fixed bed reactor with four separate catalysts, known as a 700 k converter, through s from which the sulfur and air passage: the catalyst, vanádio (V) in the healthy, is usually in the form of small pellets, to which the sulfate of Cáesio was added as a promoter (Figure 2). The prosecutor's function is to decrease the vanádio (V) f E fuse point, so that it is cast by 700 K. Figure 2 Vanádio (V) to be used for the manufacture of sulfan. The input conduct of the gaps can be seen in the middle of the image. Halidor permissions. Figure 3 A contact process flow diagram. As shown above, it is an exotic exotic reaction, for a satisfactory performance of sulfur trion (over 99.5% conversation is required), as a temperature low the economically possible It is used. Thus, the heat is removed from the gene leaving each bed using heat exchangers. The sulfur trion produced is removed between the third and fourth beds and flows to the next step, the conversation of sulfur trinion for the sulfanic sulfan. However, a small amount of sulfur diai. E o is converted and passed through the fourth catalyst bed and the resulting gases, especially sulfur trinion, flow to the next step. Based on the diagram given by Mike Sellars. d) conversation of sulfur sulfur trinity sulfan. Sulfur trion reacts with water and the reaction can be expressed as: however, the water itself can not be used for absorption, because there is a large elevation It is temperature, and one is not flying from a sulfan, which is formed, which is difficult to deal with. In of this, the sulfuric acid of about 98% of concentration is oed. this is maintained in this concentration by adding water and removing acid into in concentration.To keep the temperature at about 400 K, the heat is removed by heat exchangers, Figure 4. Figure 4 A ÁA line diagram illustrating a heat exchanger used in the manufacture of sulfur trioxide. The gases not absorbed contain about 95% nitrogen, 5% oxygen, and traces of sulfur dioxide. A ÁThe gas stream is filtered to remove any traces of sulfuric acid mist and is returned to the atmosphere using a high stack. Date last amended: 9th October 2016 2016

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