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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 57337

Manuscript Type: CASE REPORT

Neuropathy and chloracne induced by 3, 5, 6-trichloropyridin-2-ol sodium. Report of 3 cohort cases

3, 5, 6-Trichloropyridin-2-ol sodium and Chloracne

Abstract

BACKGROUND

Chloracne is a rare skin condition that is caused by systemic exposure to halogenated aromatic compounds. The main characteristic of Chloracne is blackhead, severely, it can be accompanied by systemic symptoms. Sodium 3,5,6-trichloropyridin-2-ol (STCP) is a necessary precursor compound for the production of chlorpyrifos and triclopyr, which are extensively used as pesticide and herbicide. STCP is also a chlorophenol which has been associated with chloracne. STCP poisoning could induce mild myelin sheath

Chloracne induced by 3, 5, 6-Trichloropyridin-2-ol sodium is still a di



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<https://www.researchgate.net/publication/12408061...>

TCDD levels remained higher in 101 **chloracne** cases compared to 211 controls at the time of follow-up between 1993 and 1998, and **chloracne** risk was highest in those who were younger than 8 years at ...

[Elam v. Alcolac, Inc. :: 1988 :: Missouri Court of Appeals ...](#)

<https://law.justia.com/cases/missouri/court-of-appeals/1988/wd38105-2.html> ▼

5. To install and operate an alkaline scrubber to remove 99.5% of the acrylates from the liquid waste streams from the hot wells in the vacuum system of the reactors in the monomer building. Alcolac undertook to **report** a completed and efficient operation of the installation to the DNR by July 15, 1981. 6.

[Effects of Repeated Oral Postnatal Exposure to ...](#)

<https://www.researchgate.net/publication/8083000...>

Methods: Rats were gavaged daily from 30 to 120 days old with four doses of CE (10.50; 5.25; 3.50 and 0.00 mg/kg) and thereafter followed up for 90 additional days.

[Encyclopedia of toxicology vol 1 - SlideShare](#)

<https://www.slideshare.net/littlesalpha/encyclopedia-of-toxicology-vol-1> ▼

Jul 28, 2013 · The vapor may cause dizziness or suffocation. Acenaphthene may cause vomiting if swallowed in large quantity. It can cause methemoglobinemia. Chronic Toxicity (or Exposure) Animal Rats exposed to acenaphthene at a level of 1271.5 mg mÅ 3 for 4 h a day, 6 days per week for 5 months showed toxic effects on the blood, lung, and glandular ...

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<https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockkey=9101306S.TXT> ▼

As part of the selection criteria, the relative environ- mental degradability of the two esters was evaluated using 3, 5, 6- trichloro-2-pyridyl -1⁴C-2,6- labeled phosphorothionate esters in the model ecosystem. The

Neuropathy and chloracne induced by 3, 5, 6-trichloropyridin-2-ol so



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Sodium 3,5,6-trichloropyridin-2-ol poisoning: Report of ...

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Aug 29, 2012 · **Sodium 3,5,6-trichloropyridin-2-ol** (STCP) is an important intermediate for synthesizing organophosphate insecticide chlorpyrifos. At present, chlorpyrifos is one of the world's largest species of pesticide products. Many studies have focused on the toxicity of chlorpyrifos, but few reports have looked at the toxicity mechanism of STCP.

Cited by: 1

Author: Ying-Mei Niu, Feng-Tong Hao, Yu-Jing Xia

Publish Year: 2014

[PDF] Arsenical keratosis coexists with chloracne

<https://www.tandfonline.com/doi/pdf/10.1080/24734306.2017.1355505>

[12]. Rael et al. found that **sodium** thiosulfate could delay arsine-induced hemolysis in human erythrocytes in vitro Table 1. Patient blood biochemical examination results. Blood test item Patient results Reference normal values Blood cell White blood cell 5.69 £ 10⁹/L 3.5–9.5 £ 10⁹/L Red blood cell 4.48 £ 10¹²/L 4.3–5.8 £ 10¹²/L

Author: Yue Zheng, Xiaojin Song, Haiyan Chen, ...

Publish Year: 2017

Peripheral nerve and skin damage associated with working ...

<https://www.researchgate.net/publication/227161960...>

Ji QH, Ke KF, Wang XD, Zhang TY, Yu X. Injury of peripheral nervous 3. system after **3,5,6-trichloropyridin-2-ol sodium** poisoning: **report** of 8 **cases**. Chin J Neurol 2007; 40:862 – 863.

Chloracne Article - StatPearls

<https://www.statpearls.com/articlelibrary/viewarticle/429> ▼

Oct 25, 2020 · **Chloracne** is a rare skin condition that is most often reported as a hazard of occupational

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<https://www.ncbi.nlm.nih.gov/pubmed/22702901>

Sodium 3,5,6-trichloropyridin-2-ol (STCP) is a widely used intermediate for the production of chlorpyrifos. ... This article **reports** four workers who worked in a STCP factory developed peripheral **neuropathy** in the lower extremities **and chloracne**-like skin lesions on the whole body. Patches of follicular skin eruptions (mainly blackheads ...

Cited by: 2

Author: Na Wu, Fengtong Hao, Xiaojia Yu

Publish Year: 2012

Sodium 3,5,6-trichloropyridin-2-ol poisoning: Report of ...

<https://journals.sagepub.com/doi/abs/10.1177/0748233712457453>

Aug 29, 2012 · **Sodium 3,5,6-trichloropyridin-2-ol** (STCP) is an important intermediate for synthesizing organophosphate insecticide chlorpyrifos. At present, chlorpyrifos is one of the world's largest species of pesticide products. Many studies have focused on the toxicity of chlorpyrifos, but few **reports** have looked at the toxicity mechanism of STCP.

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<https://www.tandfonline.com/doi/pdf/10.1080/24734306.2017.1355505>

pathogenesis of **chloracne** related to dioxin exposures [4]. Tang et al. investigated the gene expression of Chi-nese **chloracne** patients and found that AhR, CYP1A1, GSTA1 and c-fos transactivations were significantly **induced** in **chloracne** lesions [5]. In this **case**, we **report** a Chinese **chloracne** patient, who exposed to pesticides

Author: Yue Zheng, Xiaojin Song, Haiyan Chen, ...

Publish Year: 2017

Peripheral nerve and skin damage associated with working ...

<https://www.researchgate.net/publication/227161960...>

Ji QH, Ke KF, Wang XD, Zhang TY, Yu X. Injury of peripheral nervous 3. system after **3,5,6-trichloropyridin-2-ol sodium** poisoning: **report** of 8 **cases**. Chin J Neurol 2007; 40:862 – 863.

Decomposition and Oxidation of Sodium 3,5,6 ...

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