## Picric acid C<sub>6</sub>H<sub>3</sub>N<sub>3</sub>O<sub>7</sub> [CAS No. 88-89-1]

## Occupational sensitizer: Skin, Group 2

Synonym: 2,4,6-trinitrophenol

## **Summary of classification**

Picric acid is used as an explosive, raw material for pesticides and dyes, and reactive reagent in chemical analysis. An epidemiological study<sup>1)</sup> found that explosive production workers developed dermatitis in the area contacted by dust including picric ammonium and that the dermatitis disappeared after discontinuance of contact. Two reports<sup>2,3)</sup> describing patients with contact dermatitis caused by picric acid-containing rubs indicated that the patients were positive for picric acid in a patch test conducted after they

were cured. Consequently, picric acid is classified as a Group 2 substance that probably induces an allergic dermal reaction in humans.

Year of Proposal: 2014

## References

- 1) Sunderman FW, Weidman FD, Batson OV. Studies of the effects on ammonium picrate on man and certain experimental animals. J Ind Hyg Toxicol 1945; 27: 241–8.
- Aguirre A, Sanz de Galdeano C, Oleaga JM, Eizaguirre X, Diaz Perez JL. Allergic contact dermatitis from picric acid. Contact Dermatitis. 1993; 28: 291.
- Serra-Baldrich E, Camarasa JG. Allergic contact dermatitis from picric acid. Contact Dermatitis 1991; 25: 127.