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Child and adult exposure and health risk evaluation following the use of metal- and metalloid-containing costume cosmetics sold in the United States

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3 Angela L. Perez*¹, Melanie Nembhard¹, Andrew Monnot¹, Daniel Bator², Elizabeth Madonick³, and Shannon H. Gaffney¹ 4 5 6 ¹ Cardno ChemRisk, LLC; 101 2nd Street, Suite 700 San Francisco, CA 94105 7 ² Dept. of Environmental Health Sciences, University of Michigan School of Public Health; 1415 8 9 Washington Heights Ann Arbor, MI 48109-2029 ³ Brooks Applied Labs; 18804 Northcreek Parkway • Bothell, WA 98011 10 11 *Author to whom correspondence should be addressed. 12 Angie Perez 13 Email: Angela.perez@cardno.com 14 Phone: (415) 618-3209 15 16 Word Counts 17 Abstract: 200 18 19 Text: 6284 References: 1814 20 21 22 **Highlights** Sb, Pb, Ni, Co, Hg, and As were detected from below detection to 9.3 mg/kg wet weight 23 Oral ingestion accounted for over 99% of all metal intake 24 The Pb dose from body paint was predicted to raise BLLs above baseline in all users 25

Change in BLL was less than 1 µg/dL amongst the child and adult-intermittent users

Concentrations of the dermal sensitizer, Ni, were below international guidance values

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