

1. Record Nr.	UNINA9910808475103321
Autore	Kielhorn J
Titolo	2-butenal // first draft prepared by J. Kielborn and I. Mangelsdorf ; and K. Ziegler-Skylakakis
Pubbl/distr/stampa	Geneva, : World Health Organization, c2008
ISBN	1-282-25001-9 9786612250019 92-4-068367-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (55 p.)
Collana	Concise international chemical assessment document, , 1020-6167 ; ; 74
Altri autori (Persone)	Mangelsdorfl Ziegler-SkylakakisK
Disciplina	363.1791
Soggetti	Crotonaldehyde - Environmental aspects Crotonaldehyde - Toxicology Crotonaldehyde - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"IPCS, International Programme on Chemical Safety." "Published under the joint sponsorship of the United Nations Environment Programme, the International Labour Organization, and the World Health Organization, and produced within the framework of the Inter-Organization Programme for the Sound Management of Chemicals."
Nota di bibliografia	Includes bibliographical references (p. 32-38).
Nota di contenuto	COVER; COPYRIGHT; TABLE OF CONTENTS; FOREWORD; 1. EXECUTIVE SUMMARY; 2. IDENTITY AND PHYSICAL/CHEMICAL PROPERTIES; 3. ANALYTICAL METHODS; 4. SOURCES OF HUMAN AND ENVIRONMENTAL EXPOSURE; 5. ENVIRONMENTAL TRANSPORT, DISTRIBUTION, TRANSFORMATION, AND ACCUMULATION; 6. ENVIRONMENTAL LEVELS AND HUMAN EXPOSURE; 7. COMPARATIVE KINETICS AND METABOLISM IN LABORATORY ANIMALS AND HUMANS; 8. EFFECTS ON LABORATORY MAMMALS AND IN VITRO TEST SYSTEMS; 9. EFFECTS ON HUMANS; 10. EFFECTS ON OTHER ORGANISMS IN THE LABORATORY AND FIELD; 11. EFFECTS EVALUATION; 12. PREVIOUS EVALUATIONS BY IOMC BODIES; REFERENCES APPENDICES

## Sommario/riassunto

2-Butenal (also known as crotonaldehyde) is an  $\alpha$ , $\beta$ -unsaturated aldehyde and consequently a very reactive compound. It is a chemical intermediate used chiefly in the manufacture of sorbates, solvents, and, to a lesser extent, pharmaceutical products and aroma chemicals. This document studies the pharmacokinetics, environmental exposure, chemical toxicology and carcinogenicity of 2-butenal. However, to enable an understanding and evaluation of this aldehyde in the context of environmental health, other aldehydes, such as formaldehyde, acetaldehyde, and acrolein, are mentioned for comparison, where

---