

Chicago AIHA Half-Day Seminar

Health, Safety & Regulatory Issues of Metalworking Fluids

Metalworking fluids (MWFs) have been used for nearly 100 years to aid the processing of metals and in metal manufacturing industry. Over the past ten years, potential health effects associated with occupational exposure to metalworking fluid, and specifically metal removal fluids (MRFs) have received increasing attention and concern. NIOSH has estimated "1.2 million workers are potentially exposed to agents collectively called metalworking fluids". OSHA has listed metalworking fluids among the agency's top five concerns and, in 1997, chartered a Standards Advisory Committee to provide advice on how to address metalworking fluids in the workplace.

Attendees at this seminar will develop an understanding of the different types of metal removal fluids, the basic chemical constituents that comprise metal removal formulations, and how these materials are used in the occupational environment. In addition, the attendee will develop a basic understanding of the toxicology of MRFs, the health effects which may be associated with overexposure to these fluids, and the current regulatory and industry efforts designed to address occupational exposure to MRFs. The session will conclude with practical industrial hygiene control strategies and recommended air monitoring methodologies to be applied in the effort to minimize occupational exposures to these metal removal fluids in the machining environment.

DATE: Wednesday, October 11, 2000

PLACE: Willowbrook Holiday Inn
7800 South Kingery (at I-55)
Willowbrook, IL 60521
Phone: (630) 325-6400

Seminar Outline

The first presentation will provide an introductory overview of metalworking process and fluids used to facilitate these manufacturing operations. Particular emphasis will be upon: differentiating metal removal fluids from other classes of metalworking fluids; the four basic types of metal removal fluids along with their advantages and disadvantages; and fundamental differences in chemical composition between the four types of metal removal fluids

The second presentation will begin with a brief primer of fundamental principles of toxicology and toxicology studies. The second segment of this presentation will review health effect concerns potentially associated with occupation exposure to metal removal fluids. In addition, this session will provide an update regarding current federal regulatory development in the US and industry initiatives to address the issue of workplace exposure to metal removal fluids.

The closing presentation will discuss applied and practical considerations associated with the use of metal removal fluids and workplace exposures, including:

- proper fluid management strategies to minimize health concerns and risks,
- microbiological considerations and controls
- dermal exposure controls
- workplace assessment to mitigate dermal irritation potential
- mist production parameters and mist control strategies
- workplace monitoring methods for MRF aerosols

Presenters

David Morrison Technical Support Scientist,
Castrol Industrial North America

Daniel Goon, Ph.D. Senior Toxicologist, Castrol
Industrial North America

Daniel Zbinden, CIH Senior Industrial Hygienist,
Castrol Industrial North America

Who Should Attend?

Industrial Hygienists
Safety Professionals
Product Stewardship Professionals
Medical & Health Team Members

Schedule

8:00 AM Registration
8:30 AM Program Begins
12:00 Noon Program Adjourns

0.5 ABIH certification maintenance points have been applied for.

Cost

Chicago AIHA members \$55
Non-members \$70

Reservations

Phone: RAECO/JoAnne Skibinski
(815)-464-6200, ext. 200

E-mail: aiha@raeco.com

Payment can be made by company or personal check, or cash at the door.

Registration deadline October 6, 2000

Registration is limited to the first 50, so register early. *No-shows will be billed. Substitute attendees cheerfully accepted.*

More information about this and other programs at www.chicagoaiha.org

Location

**Willowbrook Holiday Inn
7800 South Kingery
Willowbrook, IL 60521
Phone: (630) 325-6400**

**Directions: Take I-55 to Exit 274
(Kingery, also Route 83) North. Holiday
Inn Hotel is immediately north of the exit
on the right-hand side.**



Your Essential Connection



Chicago Section AIHA Fall Seminar

October 11, 2000

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Metalworking Fluids**

Half Day Seminar

www.chicagoaiha.org