



## U. S. Chemical Safety and Hazard Investigation Board RECOMMENDATION STATUS CHANGE SUMMARY

<b>Report:</b>	Givaudan Sense Colour Explosion
<b>Recommendation Number:</b>	2024-06-I-KY-R3
<b>Date Issued:</b>	May 27, 2026
<b>Recipient:</b>	Givaudan Facilities that Manufacture Caramel Coloring Products
<b>New Status:</b>	Open – Awaiting Response or Evaluation/Approval of Response
<b>Date of Status Change:</b>	Not Applicable – Initial Status

### Recommendation Text:

*Contract a third party to develop a process safety management system to be used at each caramel coloring facility. This third party shall:*

- a. Ensure the process safety management system is in alignment with current industry guidance such as the CCPS's Guidelines for Risk Based Process Safety.*
- b. Ensure that the process safety management system requires hazard reviews/analyses to be conducted at prescribed intervals and include:
  - (1) the review/incorporation of reactivity data from CSB Recommendation 2024-06-I-KY-R1 and any additional reactivity data obtained during the course of operating any caramel coloring facility,*
  - (2) the review/analysis of any process changes that could affect relief system designs, and*
  - (3) the review/updating of the facility siting study from CSB Recommendation 2024-06-I-KY-R7, as appropriate.**

### Board Status Change Decision:

#### A. Rationale for Recommendation

On November 12, 2024, a pressure vessel exploded at the Givaudan caramel coloring manufacturing facility in Louisville, KY. The explosion fatally injured two workers, seriously injured three others, and scattered debris offsite. The facility has ceased operations.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including deficiencies in managing reactive hazards, sizing pressure relief systems, and others indicative of a faulty safety management system.

As a result of these findings, the CSB issued seven recommendations to Givaudan Facilities that Manufacture Caramel Coloring Products. This status change summary addresses CSB Recommendation No. 2024-06-I-KY-R3.