



U.S. Chemical Safety and Hazard Investigation Board

OFFICE OF GENERAL COUNSEL

Memorandum

To: Board Members

From: Steven Messer
Acting General Counsel

STEVEN
MESSER

Digitally signed by
STEVEN MESSER
Date: 2026.06.10
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Cc: Charles Barbee
Adam Henson
Leadership Team

Subject: Board Action Report – Notation Item 2026-39 | Recommendation to Clearon Corporation (2021-02-I-WV-R6) from the Optima Belle Explosion and Fire investigation (2021-02-I-WV)

Date: June 9, 2026

On June 9, 2026, the Board approved Notation Item 2026-39, thereby designating Recommendation 2021-02-I-WV-R6 to Clearon Corporation from the Optima Belle Explosion and Fire investigation (2021-02-I-WV) with the status of Closed – Acceptable Action.

Voting Summary – Notation Item 2026-39

Disposition: APPROVED

Disposition date: June 9, 2026

	Approve	Disapprove	Calendar	Not Participating	Date
S. Johnson	X				6/9/2026
S. Owens	X				6/8/2026



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

Report:	Optima Belle Explosion and Fire
Recommendation Numbers:	2021-02-I-WV-R6
Date Issued:	July 6, 2023
Recipient:	Clearon Corporation
New Statuses:	Closed – Acceptable Action
Date of Status Changes:	June 9, 2026

Recommendation Text:

Update the sodium dichloroisocyanurate dihydrate (CDB-56®) safety data sheet. At a minimum, the document should:

- a) *provide the underlying reasoning for the storage temperature maximum and the consequences of exceeding that temperature;*
- b) *provide the underlying reasoning for the decomposition temperature and the consequences of exceeding that temperature;*
- c) *explain or make clear the reason(s) for and/or the circumstance(s) resulting in the differences between the decomposition temperature and the lowest temperature at which self-accelerating decomposition may occur; and*
- d) *provide the exothermic decomposition energy in the Physical Properties section.*

Board Status Change Decision:

A. Rationale for Recommendation

On December 8, 2020, a metal rotary cone double dryer containing a chlorinated isocyanurate compound (trade name CDB-56®) exploded following a decomposition reaction that resulted in a fire and toxic chlorine release at the Optima Belle LLC (Optima Belle) facility in Belle, West Virginia. The explosion occurred while Optima Belle, a toll manufacturer, was dehydrating CDB-56® on behalf of Clearon Corporation through a contractual agreement with Richman Chemical Inc.

One Optima Belle employee was fatally injured in the explosion, two others were evaluated for respiratory irritation, and one member of the public reported a minor leg injury. Debris from the explosion was found almost a half-mile from the incident. Local authorities issued a shelter-in-place order for a two-mile radius for over four hours. The facility experienced an estimated \$33.1 million in property damage.

The U.S. Chemical Safety and Hazard Investigation Board (CSB) investigated the incident and found several safety issues including ineffective process knowledge management, a lack of thermal hazard assessment, ineffective selection of process equipment, shortcomings in industry practices related to tolling hazardous materials, and a lack of regulatory coverage of reactive hazards under the Occupational Safety and Health Administration's (OSHA's) Process Safety Management standard (PSM) and the Environmental Protection Agency's (EPA's) Risk Management Program rule (RMP). As a result of these findings, the CSB issued five recommendations to Clearon Corporation. This status change summary addresses CSB Recommendation No. 2021-02-I-WV-R6.

B. Response to the Recommendation

Solenis LLC¹ updated the safety data sheet for CDB-56[®] to include the information specified in the recommendation. Upon review of the relevant documentation provided, the CSB determined that Solenis LLC has satisfactorily implemented this recommendation.

C. Board Analysis and Decision

Based upon the information above, the Board voted to change CSB Recommendation No. 2021-02-I-WV-R6 to: "Closed – Acceptable Action."

¹ Solenis LLC acquired Clearon Corporation during September of 2022. The acquisition includes all Clearon Corporation assets, including their production facility in South Charleston, WV and an associated tableting and packaging facility.