

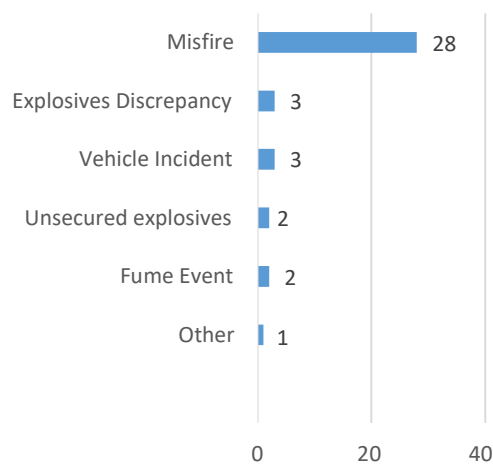


Explosives incidents – July 2020

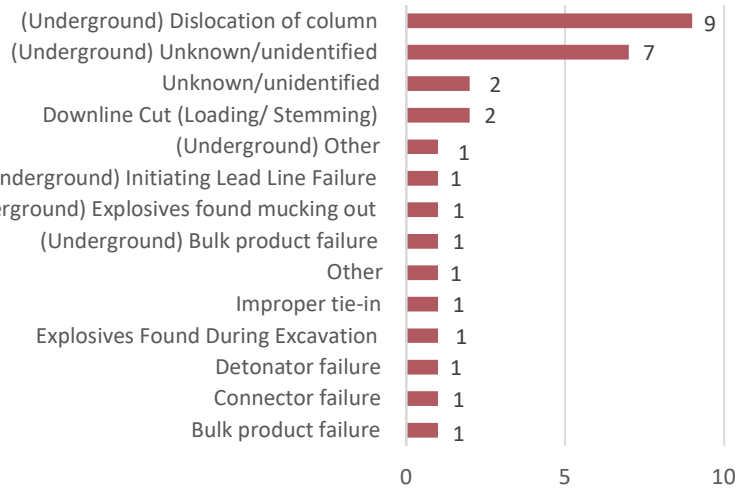
This document presents statistics for all explosives safety and security incidents reported during July 2020. It also includes a cumulative summary of all safety and security incidents for the last twelve month period. The number of injuries and fatalities occurring in the community and industry are presented for the month of July 2020, as well as the cumulative total for the financial year 2020-21.

	July 2020	Financial year to date (2020-21)
Community	0 fatality 0 injury	0 fatality 0 injury
Industry	0 fatality 0 injuries	0 fatality 0 injuries

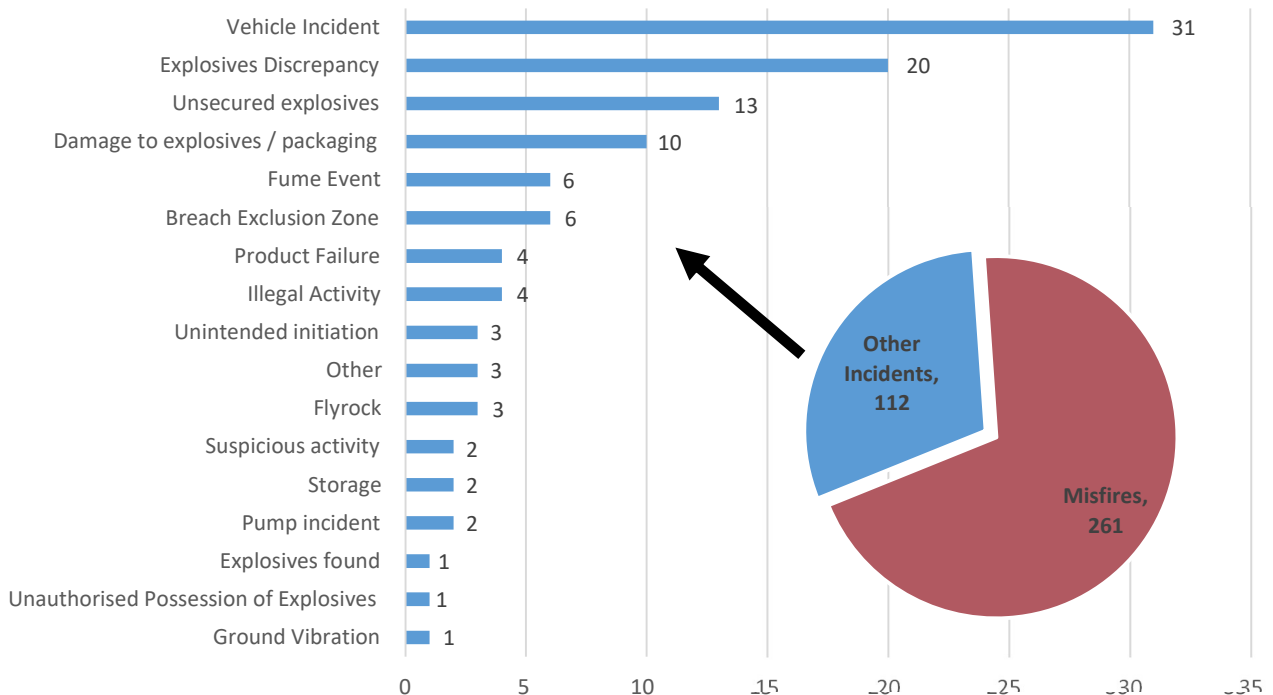
Explosives Incidents July 2020



Misfire Causes July 2020



Past year Incidents August 2019 - July 2020 (112)



Breakdown of incidents for July 2020

Security

Description	Explosives involved	Outcome/Possible causes
Explosives discrepancy (3 incidents)		
Issued out of date class 1.1D product to a mine site	Blasting explosives	Human error, magazine keeper did not follow proper process. Extension requested for shelf life of product.
2 x boosters not able to be accounted for by a mine site	Boosters	Various checks and searches conducted. Could not locate missing boosters.
Missing Primer and Detonator	Primer and Detonator	Routine stocktake has revealed 1 x D Primer and 1 x LP #14 Detonator are not accounted for. Site security procedures updated.
Unsecured Explosives (2 incidents)		
During the last night shift whilst the OCE was undertaking the inspection of the mine explosives compound the gate to the magazine compound was found to be unsecured and open.	Blasting explosives	The OCE reported to the D&B Supervisor who attended the compound and inspected the chain, lock, magazine doors, magazine locks. There were no signs of any forced entry or foul play. A stock count was conducted on explosives. all were found accounted for.
Magazine gates left open for a period of time	Blasting explosives	Magazine compound undergoing restructure to include alter licencing requirements, as a result a new gate was installed to the compound and pad lock was not fully secured through chain.

Safety

Description	Explosives involved	Outcome/Possible causes
Misfires – aboveground (10 incidents)		
Bulk product failure x 1 Connector failure x 1 Detonator failure x 1 Downline Cut (Loading/ Stemming) x 2 Explosives found during excavation x 1 Improper tie-in x 1 Other/unknown x 3	Blasting explosives	No adverse outcomes
Misfires – underground (20 incidents)		
Bulk product failure x 1 (Underground) Dislocation of column x 9 (Underground) Explosives found mucking out x 1 (Underground) Initiating Lead Line Failure x 1 Improper tie-in x 1 Other/unknown x 8	Blasting explosives	No adverse outcomes
Fume event (2 incidents)		
Level 3 – 4 Fume Event - Breached lease boundary.	Blasting explosives	No exposures. No unplanned evacuations. Poor blast design.
Fume event (level 3) did not leave the exclusion zone	Blasting explosives	There is a recommended maximum column height for gassing wet product at 1.1 density – 20m of column height. The load sheets show that 29 holes out of 157 exceeded the 20m maximum (max was 2 holes at 21.5m). While the product confinement didn't appear to have a deleterious impact on the blast, it was a contributing factor to the fume event.
Non-compliant packaging (1 incident)		
A mine packaged explosives and returned them to a Government Explosives Reserve for investigation. Packaging used was non-compliant.	Blasting explosives	No injuries. Breakdown in internal processes and communication for returns between manufacturer and customer.
Vehicle incident (3 incidents)		
B-double carrying AN Prill was involved in an interaction with a light vehicle on a public road outside Maryborough.	Ammonium Nitrate Prill	No injuries. No spill. Damage to bull bar. Driver of light vehicle fell asleep at the wheel.
An empty B-double was hit by a light vehicle. Trailers had residual AN Prill on board.	Ammonium Nitrate Prill	No injuries. Damage to B-double's drivers side centre and rear axle groups. Heavy damage to light vehicle. Light vehicle driver fell asleep at the wheel.
Emulsion pod fell off vehicle in emulsion bay	Emulsion	Spillage occurred. No injuries. Emulsion pod damaged. Unsecured load. Procedure lacked detail about load security.