

Table S2: Summary of 92 Electronic Nicotine Delivery System Overheating/Fire/Explosion Events in the U.S.

*Recipient by Reporter [in-text reference number]	Date	Event Setting in State	Product(s)	Precedent Activities and Perceived Harbingers	Event Type or Description	Injury or Health Effect	Affected or Involved's Age in Years, Gender, User Status (when known)	Fire or Property Damage Description and Control Measures	Postulated Cause(s) and Response(s)
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Events Reported in Media Sources

News by Hood[25]	Event Jan 2012	Home in Colorado	Prodigy V3.1 electronic cigarette from Pure Enterprises Enercell battery from Radio Shack	Purchased device in November 2011	Explosion while using followed by Fire.	Product exploded, sending burning debris and battery acid into mouth, face and eyes. Hospitalized for eight days. Lawsuit seeks damages for "...medical care and treatment... pain, suffering, disability, disfigurement, anxiety, depression, and loss of enjoyment of life..."	Unknown age, Male User	Lawsuit seeks "... property damages for fire damage and loss of use of his residence."	Lawsuit alleges that retailer "failed to adequately warn purchasers of the dangers"
News: Are smokeless cigarettes safer? [26] News by CBS News Staff [27]	Event 15 Feb 2012 [26,27]	Home office in Florida [26,27]	Rechargeable cigar-sized device[27] Recharge-able lithium battery[27]	Unknown	Explosion in mouth during use.[26,27]	Facial burns, lost part of tongue and several teeth. Care in local hospital, followed by burn center hospitalization.[26,27]	57, Male User[26,27]	Carpet and chair cushions burned.[26] Pictures and office equipment also burned.[27] Housemates extinguished fire using salt.[27]	Tobacco Vapor Electronic Cigarette Association spokesperson "...believed device was not the commonly sold kind, but a specially modified device designed to give the user a turbo-charged blast of nicotine." [26,27] Fire officials said there was a faulty battery.[27]

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News: Electronic cigarette explodes in Muskogee woman's hand[28]	Event 15 Apr 2012	Home living room in Oklahoma	OneJoy NJOY electronic cigarette	Brand new device	Explosion when opening original package.	Blast affected hearing in right ear and vision in left eye.	Unknown age, Female, User	Knocked 15-pound salt lamp from shelf and shattered the light bulb. Knocked decoration off opposite wall.	Manufacturer offered to collect accused product and provide refund.
News by Downing[29]	Event Nov 2012	Unknown setting in Texas	Rechargeable U.S.-made electronic cigarette USB charger with MacBook	Product placed on charge for two hours before event.	Explosion while charging and in user's hand followed by Fire.	User treated for second and third degree burns and smoke inhalation, with persistent finger numbness eight months later. Wife suffered from smoke inhalation.	Unknown age, Male User; And Unknown age Female	Unknown	User complained that the product had no instructions for how long to charge and no warnings. Manufacturer pursuing whether product was a "knock off."
News by Romboy[30]	Event 1 Feb 2013	Home in Utah	Prodigy V3.1 electronic cigarette by Pure Enterprises	Product purchased Oct 2011	Explosion during use followed by Fire.	Product exploded in user's face, sending burning debris and battery acid into the mouth, face and eyes. Hair caught on fire. Ambulance transport to University Hospital for ten-day stay. Lawsuit alleges "...pain, suffering, disability, disfigurement, anxiety, depression, loss of enjoyment of life..."	Unknown age, Male User	Lawsuit alleges "...loss of the use of his home..."	Unknown cause Lawsuit

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News: Corona couple sues after e-cigarette battery explodes in car[31]	Event Mar 2013	Occupied moving car in California	Rechargeable VapCigs e-cigarette Car charger	Product placed on charge for unspecified duration. Smell like nail polish plus battery dripping.	As user was unscrewing device from charger – Fire followed by Explosion.	Second degree burns on upper thighs and lower buttocks	Unknown age, Female User	Flame ignited woman's dress and passenger seat. Extinguished with coffee.	Lawsuit against retailer and manufacturer for selling an unsafe product. [31] Award of \$1.9million from law suit against distributor, wholesaler and retailer alleging that all were involved in the distribution of a an unsafe product with no warnings.[139]
News: Police: 'Explosion' at apartment complex came from e-cigarette [32]	Event 16 Apr 2013	Under desk in apartment complex office in Oklahoma	E-cigarette Lithium battery	Unknown	Overheating followed by Explosion.	One employee taken to the hospital in good condition for smoke inhalation.	Unknown age, Female	Firefighters and hazmat unit responded. No evacuations.	Unknown
News by Reiser[33]	Event 24 Apr 2013	Parked unoccupied car in Arizona	Rechargeable Ego-T Small lithium battery Car cigarette lighter charger	Product unattended while charging for more than two hours	Explosion while charging followed by Fire.	No information	Unknown age, Female	Device tip projectile landed in, smoldered, and ignited back seat. Firefighters responded.	Fire investigator said battery exploded. Affected family sought to warn other people.

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News: Tulsa man's e-cigarette catches fire while charging[34]	Report 7 Jun 2013	Home kitchen in Oklahoma	Rechargeable e-cig Laptop charger	Purchased device two months earlier. "Huge flash" while plugged into laptop for unspecified duration.	Fire while charging in laptop.	No information	Unknown, Male User	Laptop, lamp and shades ignited. Occupant called fire department.	User requested retailer refund. User planned to research "who to buy from" and to "not go back to the real thing." Retailer began warning subsequent customers to use correct charger.
News by Navarrete [35]	Event 1 Jul 2013	Car in Utah	Rechargeable electronic cigarette Car charger	Product placed on charge for unspecified duration.	Fire while charging.	No information	Unknown, Female User	Car caught fire and was "badly damaged."	Unknown
News by Chaney[36]	Report 1 Aug 2013	Home in Oklahoma	Rechargeable e-cigarette Wall charger	Product placed on charge 15 minutes before event.	Explosion while charging. followed by Fire.	No information	Unknown, Female User	Projectile hit wall and carpet, igniting three areas. User extinguished fires with a glass of water.	User claimed distributor told her any charger would work with her device. User planned "cold turkey" to "kick the habit."
News by Proulx[37]	Event week of 25 Aug 2013	Home in New York	Rechargeable electronic cigarette	Product placed on charge for unspecified duration before event.	Explosion while charging followed by Fire.	No injuries	Unknown	Heavy smoke and water damage. Firefighters extinguished flames in 15 minutes.	The Fire Marshal ruled the fire accidental.

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News by Navarrete [35]	Event 26 Aug 2013	Apartment in Arizona	Rechargeable Smokein T electronic cigarette Wall charger	Product placed on charge for unspecified duration. Smoke detector alarm wakened occupants.	Fire while charging.	No information	22, Male User	Carpet ignited.	"The company" offered replacement product. User is stopping all forms of "smoking."
News by Strickland [38] News: Elizabeth Wilkowski, Atlanta woman, claims e-cigarette explosions almost destroyed her home[39]	Reports 2 Sep 2013 [38] and 4 Sep 2013 [39]	Home in Georgia [38,39]	Rechargeable E-hit brand e-cigarette by Seego in China[39] Charging in computer USB port[38,39]	Product placed on charge for unspecified duration.	Explosion while charging (sounded like a bomb and shook walls[39]) followed by Fire.[38,39]	No information [38,39]	Unknown age, Female, User[38,39]	Scorch mark on couch[38] or couch caught fire.[39] Hole burned in rug.[38,39] Charred rag she had used to unplug product.[38]	Manufacturer said it had stopped producing this product model three months earlier (although it was still shown on their website) and that the wrong charger had been used based on photographs and videos in news stories. [39] Retailer stopped carrying this brand and offered replacement with another brand.[38]

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News sub story by McFall[40]	Report 24 Sep 2013	Unknown setting in Utah	Rechargeable e-cigarette	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No injuries	Unknown	Projectile landed in laundry basket, igniting the laundry.	Unknown
News by Wasserman [41]	Report 1 Oct 2013	Home in Minnesota	Rechargeable e-cig Plugged into computer to charge	Product placed on charge for unspecified duration. Started sparking "like a fountain firework" seconds before event.	Explosion while charging followed by Fire.	No information	Unknown age, Male User	Projectile landed on and burned carpet.	Unknown
News by Christie[42]	Event 1 Oct 2013	Unknown setting in Wisconsin	Rechargeable e-cigarette	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No information	Unknown age, Female User	Projectile launched 25 feet from the charger and started a fire.	Unknown

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News by McCurdy [43]	Event 3 Oct 2013	Home in Florida	Rechargeable electronic cigarette Wall/USB charger	Product placed on charge for 10 minutes before event. Loud sound like a gun.	Explosion while charging followed by Fire.	No injuries - three adults and a child evacuated safely.	Unknown age, Female User	Projectile travelled 3.5 feet and ignited curtains. Occupant tried unsuccessfully to use fire extinguisher and blanket to extinguish the fire- then removed the curtains to outdoors. Firefighters extinguished the fire. Damages estimated at \$100.	Unknown
News by Thomas R. [44]	Event "days before" 16 Oct 2013	Home in Arizona	Rechargeable Smokin' T E-cigarette cartridge	Product placed on charge for 20 minutes.	Overheating while charging followed by Explosion and Fire.	No information	Unknown age, Female User	Scorched carpet	User bought exact replacement product, thinking the first product was faulty. Days later had a more serious event. [44,45,46]

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News by Thomas R.[44] News by Gilger[45] News by Gilger et al.[46]	Event 16 Oct 2013[44]	Home bedroom in Arizona [44,45,46]	Rechargeable Smokin' T E-cigarette [44,45,46]	Plugged device into charger 20 minutes before the event.[44] Put charging product on top of bed and left. [45,46] Smoke detector alerted them.[45]	Overheating while charging [45,46] followed by explosion [44] and Fire. [44,45,46]	Nonuser went back inside evacuated house to rescue dogs and suffered smoke inhalation requiring a three-day burn center hospitalization.[44,45]	Unknown age, Male Nonuser [44,45]	Fire gutted bedroom, with smoke and water damage to much of house.[44] Damages estimated over \$100,000 USD. [45] Occupants were living in a hotel two months later.[45,46]	Injured nonuser complained about having no instructions for how long to charge[45,46] and having no warnings.[44,45,46] Fire investigator said product cartridge overheated and sparked the fire [45,46].
News by Shukhnov [47]	Report 5 Nov 2013	Home in Idaho	Rechargeable electronic cigarette Plugged into a laptop	Product placed on charge for unspecified duration. Smoke alarm awakened sleeping family.	Overheating led to explosion while charging followed by Fire	No information	Unknown	Projectiles ignited furniture. Occupants extinguished "living room blaze" with fire extinguisher.	Fire investigator said battery overcharged and overheated.

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News by Trent[48]	Report 11 Nov 2013	Home in Arizona	Crown Seven Gladiator electronic cigarette Lithium battery	Device was four days old. Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No information	Unknown age, Male User	Projectile hit a window and fell to the floor, igniting carpet. Fire "spread quickly" and was extinguished using a glass of water.	Manufacturer said device and charger used were not theirs.
News by Gatton[49]	Report 11 Nov 2013	Unoccupied parked car in Oregon	RechargeableE-cigarette Car cigarette lighter charger	Product placed on charge for two hours.	Explosion while charging followed by Fire.	No information	Unknown age, Female User	Projectile landed in back seat. Extensive damage to stereo system and interior of truck.	Unknown
News by Craig[50]	Report 24 Nov 2013	Home in Michigan	Rechargeable Bull Dog Vaporizer Wall charger	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No information	Unknown, Female User	Projectile scorched hardwood flooring. User extinguished fire.	Retailer stated that this was the first event in seven years of business.

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News: E-cigarette blamed for mattress fire[51]	Report 28 Nov 2013	Home bedroom in Colorado	Rechargeable Foos e-cigarette	Product was on the floor while charging and unattended for an unspecified duration. User heard a strange noise.	Explosion while charging followed by Fire.	Burns to arm, hands and face	Unknown age, Male User	Smoke alarms rang & user found projectiles had ignited bed. User smothered flames with blanket.	User said device overcharged. User went back to "normal cigarettes." Manufacturer said this was the first event for this product and they would pay for damages if all experts agreed the accused product was at fault.
News by DeMasters [52]	Event 9 Dec 2013	Home in Utah	Rechargeable e-cigarette USB charger in computer	Product placed on charge for unspecified duration.	Overheating followed by explosion while charging, then Fire.	No injuries	Unknown	Projectile landed across the room, leaving a black mark on the wall.	Unknown

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News by Kurwicki[53] News by Thomas C. [54]	Event 10 Dec 2013 [53] Follow-up report 11 Jan 2014 [54]	Unknown in North Carolina [53,54]	Buckeye Vapors e-liquid containing propylene glycol, alcohol [53,54], glycerin and nicotine[53] "Pipe-shaped device"[54]	Had been using an e-cigarette for 10 weeks.[53] Heard a "little pop" at time of event.[53]	"E-cig erupted" after taking a puff. [53,54] Hot oil from the device tip shot into the user's eye. [53,54]	Burn and damaged vision in one eye. [53] Pain and temporary blindness.[54] Hospitalized overnight.[54]	54, Male User[53,54]	Unknown	User said the menthol caused the burning sensation.[53] User was pursuing legal action against the manufacturer of both the e-cig and the "liquid flavor." [53]
News by Landis & Foster[55]	Event 23 Dec 2013	Home bedroom in Missouri	Rechargeable e-cig Laptop USB charger	Product placed on charge for unspecified duration. Product emitted smoke or steam.	Overheating while charging followed by Fire, then Explosion.	Pain and second- degree burns to one leg and foot. Emergency room care and "took weeks to recover."	Unknown age, Male User	Projectiles ignited bed, burned through king-sized mattress down to box springs. Occupants extinguished fire.	Injured user stated he probably used the wrong charger. User plans to try nicotine replacement therapy.

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News by Sanchez[56]	Event month of Jan 2014	Home in Arizona	Rechargeable eGo from China USB charger in laptop computer	Product placed on charge for 20 minutes, while user went outdoors Heard a pop.	Explosion while charging followed by Fire.	No information	Unknown age, Male User	Projectile shot across table and landed in loveseat which ignited.	Unknown
News by KGW Staff [57] News by The Associated Press[58]	Reports 3 Mar 2014	Unknown in Oregon [57,58]	Electronic cigarette Lithium battery [57,58]	Product placed on charge for unspecified duration. [57,58]	Overheating while charging followed by explosion and Fire.[57,58]	No injuries[57]	Unknown [57,58]	Projectiles sent bits of burning battery into the ceiling and walls. [57,58] Hot piece of battery landed on pillow, which smoldered and filled house with smoke.[58]	Unknown[57,58]
News by KGW Staff [57] News by The Associated Press[58]	Reports 3 Mar 2014	Unknown in Oregon [57,58]	Electronic cigarette Lithium battery [57,58]	Product placed on charge for unspecified duration. [57,58]	Overheating during charging followed by Fire.[57,58]	No injuries[57]	Unknown [57,58]	Mattress ignited. [57,58] Resident extinguished fire.[58]	Unknown[57,58]

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News by Mulder[59]	Event 22 Mar 2014	Hospital in New York	E-cigarette	User in hospital was wearing nasal cannula oxygen. Loud pop was heard.	Fire during use.	Patient had e-cigarette in her mouth and was using oxygen when fire started. First- and second- degree burns "from ear to ear." "Patient was in shock." Stabilized in intensive care, then hospitalized in a burn center.	Unknown age, Female User	Staff observed fire around patient's nose and shooting out the end of a hose connected to wall outlet oxygen. Facial flames were extinguished in less than 1 minute using a blanket and the oxygen was shut off.	Proximate oxygen
News: Cigarette charger blamed for fire[60]	Event 7 May 2014	Home Kitchen in California	Rechargeable e-cigarette Wall charger	Product placed on charge, and unattended for unspecified duration.	Fire while charging.	Two people evacuated with no injuries.	Unknown	Home full of heavy black smoke. Damage to structure was ~ \$5000 USD. Damage to contents was ~\$200 USD.	Firefighters said e-cigarette was plugged into an outlet near other combustible items.

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News: E-cigarette charger sparks OKC home fire; woman burned[61]	Event 3 Jul 2014	Home bedroom in Oklahoma	Rechargeable e-cigarette	Unknown	Fire	Burn to hand while trying to extinguish the fire.	Unknown age, Female	Bedroom, furniture and parts of back porch burned. Occupant was unable to extinguish "rapidly spreading fire." Damages estimated at ~\$75,000 USD.	Unknown
News by Mendoza[62]	Event 28 Sep 2014	Apartment kitchen in Hawaii	Rechargeable e-cigarette Wall charger	Product placed on charge per instructions for two hours , before event, and was unattended.	Explosion while charging followed by Fire.	No injuries	Unknown age, Female User	Projectile ignited paper bag and lunch box on kitchen counter, as well as countertop. Occupant extinguished fire.	Firefighters confirmed e-cigarette was the source of the fire.
News by Chen[63]	Event 11 Nov 2014	Six-unit house in Washington	Electronic cigarette	Unknown	Explosion followed by Fire.	Five people were evacuated. User, who needed a walker for ambulation, suffered hand burns. One person hospitalized in critical condition for smoke inhalation and burns.	Unknown age, Female User; Unknown age, Male Nonuser	User said product projectiles ignited her couch in first floor unit. Fire crews described flames seen "through the upper floor" upon arrival.	Unknown

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News by Bechtel[64]	Event 17 Dec 2014	Home in Ohio	Rechargeable e-cigarette Cell phone charger	Product placed on charge for unspecified duration.	Fire while charging.	No injuries	Unknown	Curtains near outlet ignited. Fire spread to couch. Property had minor smoke damage. Estimated damages \$1000 USD.	Fire investigator said charger was not compatible with e-cigarette.
News by Baker[65]	Event year 2014	Batteries carried in pants pocket while outdoors in Texas	E-cigarette Rechargeable "lithium-ion high-drain batteries" for e-cigarette	Playing kickball with batteries in front pocket of shorts - no direct impact of ball to pocket and no loud noise	Battery explosion while wearing, followed by Fire.	First- and second-degree burns of thighs and genitals.	Unknown age, Male User	"Hot fizzing...explosion... with sparks shooting from ...crotch area"	Lawsuit alleges retailer sold product that was "unreasonably dangerous" and "failed to conform to the applicable design standards and specifications." Retailer began selling safety storage boxes for batteries and informing customers how to handle the batteries.
News by Corona & Marcus[66]	Event 12 Jan 2015	High School Gym in Nevada	Electronic cigarette	Two students were "messaging with the e-cigarette."	"Minor" explosion.	No information	Unknown	School evacuated.	Event was determined to be accidental.

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News by Powell[67]	Event 14 Jan 2015	Home in Tennessee	Rechargeable e-cigarette Wall charger	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No information	Unknown age, Female	Home caught fire. Occupant extinguished flames.	Local e-cigarette retailer stated that they "...check all the devices they sell for quality...and go through a full demonstration on how the device works, how to maintain it, how to clean it, how to fill it, how to charge it."
News by Fox5 Digital Team[68]	Event 8 Feb 2015	Liquor store in California	Electronic cigarette	Unknown	Explosion followed by Fire.	Store employee hospitalized in critical condition at a burn center with facial burns and lacerations after product exploded in employee's face.	Unknown age, Male	Store was damaged. Projectiles shattered a glass display. Authorities responded.	Unknown
News by Hernandez [69]	Event 10 Feb 2015	Home in California	E-cigarette	User was holding the product	Explosion followed by Fire.	Lacerations and burns to hand	17, Male	Projectiles burned a hole in the wall and carpet.	Unknown

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<p>News by Scripps Media, Inc.[70]</p> <p>News by 13WHAM [71]</p> <p>News by Horvatits [72]</p>	Event 4 Mar 2015[72]	Apartment in New York[72]	<p>E-cigarette [70,71,72]</p> <p>Nickel cadmium battery[70]</p>	Product placed on charge for unspecified duration and had just finished a full charge.[71] Thirty seconds after inserting battery to device, it started sizzling.[72]	Explosion while being tossed from user's hand[71] followed Fire.[70,72]	<p>Hand laceration treated by paramedics.[70,71]</p> <p>Six stitches placed to treat hand laceration.[72]</p>	23, Male User[72]	<p>Small fire.[72]</p> <p>Burn damage to carpet.[70]</p> <p>Projectile ("end cap of e-cig") lodged in wall.[70,71]</p>	Firefighters stated that either the wrong battery was used or the battery was inserted the wrong way.[72]
<p>News by Rocha[73]</p> <p>News by Duranty[74]</p>	Event 9 Mar 2015[74]	Apartment bedroom [74] in California [73,74]	Modified e-cigarette[73]	Product hummed during use and user was pulling it away from his face.[73,74]	Explosion during use followed by Fire.[73,74]	<p>"Flash burns" to face and hand, and hand lacerations. [73,74]</p> <p>Examined at local hospital.[74]</p>	20's, Male, User[73,74]	<p>Small fire.[74]</p> <p>Projectiles lodged in ceiling and on bed, igniting items on bed. [73]</p> <p>Occupant extinguished fire using water.[73]</p>	Unknown[73,74]

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News by Lodor[75]	Report 28 Apr 2015	Home in New Jersey	E-cigarette USB cellphone charger	Product placed on charge for unspecified duration.	Fire and Explosion while charging.	No information	Unknown age, Female User	Char marks in the kitchen	Firefighters determined that the wrong charger had been used because it looked identical to the e-cigarette charger and fit the same way.
News by Boggs[76]	Report 22 May 2015	Product image appears irrelevant as it is an intact product.	"Vapor smoker or e-cigarette"	Unknown	Explosion during use .	Text has no information. Full face images show apparent burns to both lips, central tongue and palate. Hands are not shown.	Unknown	Unknown	Unknown
News by Dewberry[77]	Event month June 2015	Restaurant in Texas	E-cigarette extra batteries (purple cylindrical lithium-ion, manufactured, in China's Guangdong Province by EFEST)	User carried e-cigarette in one hand and extra batteries with keys in a pocket. While waiting in line user heard a sound "like a fuse going off, then saw "flames like fireworks... shooting out of my pants."	Explosion followed by Fire while wearing.	Second and third degree burns with "excruciating pain." "I can't walk because the burn is on top of my muscle on my thigh." As of September, 2015, the leg had not completely healed	21, Male User	Pants were singed with a hole burned through the pocket.	User complained that no instructions came with the batteries. Manufacturer stated that the keys and battery contacted, causing a short circuit. Manufacturer has had similar reports, posted a warning on its website, and sells a battery carrying case.

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News: Austin man says e-cigarette battery exploded in his pocket[78]	Event 30 Jun 2015	Auto Glass Shop in Texas	E-cigarette lithium ion battery VTC5	User carried an extra battery in a pants pocket while installing an auto windshield. He felt a vibration in the pocket, then heard a hissing sound "like a firecracker" then felt a burning sensation.	Explosion while wearing. Removing the pants, user saw a chemical spilled over his leg.	The area is painful and impedes walking. User was unable to work for at least one month.	Unknown age, Male User	No fire is described.	An attorney identified the battery as resembling one made by a "well-known electronics company." The attorney believes the battery was a counterfeit.
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News by Pan[79]	Event 29 Jul 2015	Unknown in Georgia	E-cigarette	Unknown	Explosion during use.	<p>User has little memory of the event. First degree burns of the face and chest, burns to hand and cornea, fractured neck and finger, dime-sized hole in roof of mouth with damage to upper and lower teeth with upper tooth displaced fully into the gum.</p> <p>Air transported to burn unit for 7 days' intensive care.</p> <p>Six weeks after event user spoke with a lisp, was unable to eat solid food, and lived with parents.</p>	23, Male User	<p>Firefighters responded.</p> <p>No information on property damage.</p>	Firefighters investigated the event and retained the product.

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News by Wimbley[80]	Report 3 Aug 2015	Home in Michigan	Pharaoh vapor pen (“like an e-cigarette”) made by a Chinese company	“I pushed it...”	Explosion while using the product.	User was hospitalized with a scorched arm and burned abdomen. His thumb contains shrapnel and he may have nerve damage.	Unknown age, Male User	Device projectile put holes in the wall.	User complained of no warnings on packaging, considered legal action, and regarded the long-term health risks of combusted cigarettes as safer than the short-term explosion risk of e-cigarettes. News reporter was unsuccessful in contacting the manufacturer. News reporter notified Congresswoman Debbie Dingell.
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Events Reported to the United States Department of Transportation/Federal Aviation Administration

FAA by FedEx[81]	13 Aug 2009	Airplane cargo hold in Minnesota	E-cigarette Lithium metal batteries	Air shipment and airplane landing.	Fire	No information	Not applicable	Fire warning light alerted crew. Numerous packages were found with smoke and fire damage.	Unknown
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FAA by DHL [82]	25 Feb 2014	Cargo air shipment sort center in Kentucky	E-cigarettes originating from Hong Kong Lithium ion batteries	International air shipment	Fire	No information	Not applicable	25 e-cigarettes in bubble wrap packaging were discovered charred and melted - "damaged by fire."	Device damage prevented full evaluation. Shipping documents had inaccurate information about contents.
FAA by JetBlue[83] CPSC[Letter from Fire Marshal to CPSC Chairman. Report date 15 Oct 2014. Unpublished data] News by Marcelo[84]	Incident [CPSC] 9 Aug 2014	Passenger airplane baggage hold in Massachusetts[CPSC,83,84]	Electronic cigarette Lithium ion battery[83]	Checked and loaded bag. [CPSC,83, 84]	Fire [CPSC,83,84]	No information [CPSC,83,84]	Not applicable	Bag was emitting smoke, so removed from aircraft bin and put on ground. Fire extinguisher not successful in putting out fire. Source identified as electronic cigarette which continued to bum after removed from bag - then extinguished with fire extinguisher.[83] Airplane evacuation took place.[84]	Investigation determined event was accidental due to battery-operated atomizer device activation and heating to at least 212°F.[CPSC] Fire Marshal reported to CPSC his concern that devices can be turned on during normal luggage handling.[CPSC]

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FAA by Transportation Safety Administration for SkyWest [85]	4 Jan 2015	Airport in California	E-cigarette vaporizer Lithium ion battery	Product stored in checked passenger baggage.	Overheating while stored followed by Fire.	No information	Not applicable	Checked bag missed its flight and was observed to be on fire while sitting in the airport "make-up" area. Airport staff extinguished fire and notified police.	Police determined the likely cause was the e-cigarette overheating and burning inside the bag.
FAA by Southwest [86]	10 Jun 2015	Passenger airplane baggage hold in New Mexico	E-cig and two spare 3.7 volt lithium ion batteries	E-cig and spare batteries were in a checked passenger bag during a flight and discovered during offloading after landing	Overheating and Fire while stowed.	No information	Not applicable	The bag "was smoking as it was offloaded" from the plane.	"One of the batteries was not protected from short circuit causing burning and smoke."

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FAA by Flight Attendant [Report 1263077. Unpublished data]	Report 9 Jul 2015	Airport terminal after deplaning	E-cigarette	Product was carried on in a purse for an airplane flight.	Overheating during air transportation	No information	Unknown age, Female	Passenger was observed "...dealing with a smoldering e-cigarette in her purse...that had melted several items..."	Passenger stated "the safety was off on the e-cigarette and it had generated enough heat to melt several items..."
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Events reported to the United States Food and Drug Administration

FDA by healthcare provider [87]	Event 27 Jun 2011	Moving Car in California	Titanium Innovations Lithium battery (CR123a 3.0v)	Unknown	Explosion in mouth during use.	Second degree burns of face, mouth and one eye injured. Care in emergency room, followed by treatment at burn center.	38, Male User	Unknown	User stated he tried to recharge a non-rechargeable replacement battery.
FDA by user[88]	Event 17 Jun 2012	Unknown setting in Florida	V2 cigs (medium) cartridges	Unknown	Cartridges overheated quickly during use after just a few puffs. Switching cartridges several times had the same issue.	Nausea and chest rash after two days' use, followed by "violent vomiting" with five more days' continued use. Emergency room visit, with diagnosis of nicotine overdose and identified trace diethylene glycol in blood. Tests underway for liver and kidney function.	Unknown age, Male User	No fire or explosion are described.	Cause of overheating not reported. Doctors attributed symptoms to nicotine overdose related to e-cigarette use. User decided to sue "the company."

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FDA by user[89]	Event 2 May 2013	Home in Texas	Rechargeable Super Vapor EGO-T E-Cig	Had used the product for 11 days. Product placed on charge for 90 minutes.	Explosion while charging followed by Fire.	Medical care for first-, second-, and third-degree burns on arm, elbow, hip, buttock & ankle, with permanent scarring.	25, Female User	Projectile flew 15 feet. Burn spots present on couch and rug. Occupants extinguished fire.	Investigator unable to identify product manufacturer & closed investigation with "insufficient information."
FDA by spouse of user[90]	Event 29 May 2013	Home in Utah	Rechargeable liquid White Rhino by White Rhino	Product placed on charge for unspecified duration. Loud bang.	Explosion while charging followed by Fire.	No injuries	37, Male User	Projectile started hallway fire.	Unknown
FDA by healthcare provider [91] News by Kulwicki [92] News by McFall[40]	Event 20 Sep 2013[91]	Occupied moving car in Utah[91]	White Rhino e-cigarette [91,92] USB car charger (original charger) [40,92]	Product placed on charge for unspecified duration. [91,92] Strange smell[92]	Explosion while charging followed by Fire. [40,91,92]	First- and second- degree burns[92] to left elbow, left flank, and left buttocks.[91]	3, Male Nonuser [40,91,92]	Projectile(device coils) ricocheted off car ceiling and into rear car seat where child was restrained, igniting his clothing.[40,91,92] Fire extinguished by mother using iced coffee.[40,91]	User planned never to buy another e-cigarette.[92] Fire Marshal said the batteries overcharged and failed.[40]

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FDA by Fire Marshal [Personal communication to CTP Tobacco Product Surveillance Team. Report date 12 Nov 2013. Unpublished data]	Event 3 Nov 2013	Home in Maryland	<p>Rechargeable EVOD from ShenZhen, China</p> <p>Suspected several wrist watch style batteries joined in series and packed with plastic wrap</p> <p>Combo style wall/USB in computer-of eGo input</p> <p>DC 5.0volt, 500ma, output</p> <p>DC 4.2 volts, 420 ma</p>	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No injuries despite medical oxygen in the home.	Unknown age and gender, User	<p>Projectile hit the bed, fell to carpeted floor and ignited carpet.</p> <p>Fire extinguished by occupant using water.</p>	Fire investigator identified this device as one likely involved in voluntary battery recall.[106]
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FDA by user[93]	Event 12 Dec 2013	Unknown setting in Arizona	Rechargeable Brand Smoke Magnosto and Joytech pro 2 by Smok cigarette "Ultrafire protected" lithium rechargeable battery	Unknown	Explosion "while smoking" followed by Fire.	Cracked upper denture, fractured roof of mouth and internal nose, ignited face and sinus cavity. Treated in burn unit for first- and second- degree burns.	46, Male User	Unknown	Unknown
FDA by user[94]	Report 6 Feb 2014	Unknown	Vista Vapors electric cigarette Dual user with combusted cigarettes	User did not change the product in any way before use.	Overheating during repeated use episodes over a three-month period.	Altered and blackened taste buds, and yellowed teeth. No medical care.	50, Female User	Not applicable	Unknown
FDA by user [Safety Reporting Portal. Report date 26 Mar 2014. Unpublished data]	Problem start 26 Mar 2014	Unknown setting in Minnesota	Rechargeable Joytech e-go T e-cigarette	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No injuries	36, Female User	Projectiles and flames destroyed hardwood floors, computer, and desk.	User claimed manufacturer stated device was too damaged to identify as their product.

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FDA by user's friend in Arizona [Personal communication to CTP Ombudsman. Event date not reported. Unpublished data.]	Report 30 Apr 2014	Unknown	E-cigarette	Unknown	Explosion in mouth.	Burns to mouth, lips and cheeks.	Unknown age, Male User	Unknown	Unknown
FDA by user [Safety Reporting Portal. Report date 7 Aug 2014. Unpublished data]	Problem start 7 Aug 2014	Unknown setting in Missouri	v2cig disposable e-cigarette with a red stripe around it	Product had been used for two weeks.	Overheating during one episode of use of duration " a while." "...got really hot at the end and the red light stayed on."	No injuries	Unknown age, Female User	Device emitted smoke and user dropped it into water.	User described that the device would not turn off.

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FDA by physician [MedWatch. Report date 17 Apr 2015. Unpublished data]	Event 14 Apr 2015	While carried in pants pocket in Ohio	Amy 260 box mod e-cigarette	Described as spontaneous event while in front pant pocket.	Explosion	Burn and abrasions to one entire lower extremity.	20, Male	Unknown	Unknown
FDA by Campus Fire Marshal [Safety Reporting Portal. Report date 20 Jun 2015. Unpublished data]	Problem start 19 Jun 2015	Patient room in California	E-cigarette	Used product was stored in a purse for 20 minutes after its last use.	Fire during storage.	No injuries	44, Male	Product ignited a purse.	Fire Marshal stated, "E-cigarette possibly exploded or was accidentally kept in the on position...Possibly stored the device incorrectly."

Events reported to the United States Consumer Product Safety Commission

CPSC by user [SaferProducts.gov Report. Report date 1 Apr 2013. Unpublished data]	Incident 29 Mar 2013	Unknown setting in California	Disposable E-hookah Strawberry Daiquiri by LuxuryLites	Crackling noise when turned on.	Overheating during use of unspecified duration.	Inhalant extremely hot and burned inside of mouth. No first aid or medical attention.	22, Male User	Not applicable	Unknown
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CPSC by healthcare provider [95]	Treatment 27 Apr 2013	Car on Street or Highway in Unknown state	Rechargeable E-cig; car charger	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	First-degree burn to unspecified site. Second-degree burn to scapula. Arm burn. Examined or treated and released.	19, Female User	Hair, shirt and car caught fire.	Unknown
CPSC by user [SaferProducts.gov Report. Report date 14 Oct 2013. Unpublished data].	Incident 18 Sep 2013	Unknown in California	Disposable electric cigarette that looks like a real one, Cig20 mini	Unknown	Explosion in mouth while inhaling.	Saw medical professional for burn to fingers, lip, gums and stitches from recent periodontal surgery.	53, Female User	Unknown	Unknown
CPSC by spouse of user [SaferProducts.gov Report. Report date 24 Mar 2014. Unpublished data]	Incident 25 Nov 2013	Home in Vermont	Rechargeable Metro Electronic cigarette starter kit including replaceable cartomizer, by Nicotek	Unknown	Overheating during use of unspecified duration.	Burn injury with first aid by non-medical professional.	45, Female User	Not applicable	User stated "battery normally shuts off after inhaling... did not shut off and became extremely hot" "Manufacturer sent several replacements that did not work."

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CPSC by user [SaferProduct.s.gov Report. Report date 14 Apr 2014. Unpublished data]	Incident 20 Dec 2013	Home in Minnesota	Rechargeable E-cigarette, Brand Ego-T, by Shenzhen Joyetech Co Plugged into computer jack	Product placed on charge for 30 minutes. Odor of smoke.	Fire while charging.	"Unspecified"	Unknown age, Male User	Unit caught on fire, melted the charger, fell on the desk, and ignited the desk.	User stated "there are no warning or instruction labels on the product."
CPSC by healthcare provider [Hospital report to CPSC. Unique ID 131254491. Unpublished data]	Treatment 24 Dec 2013	Unknown	Electronic cigarette machine / ("Hooka")	Heating oil while holding device.	Explosion	Hand laceration when device he was holding exploded. Examined or treated and released.	59, Male User	Unknown	Unknown
CPSC by user [SaferProduct.s.gov Report. Report date 14 Jan 2014. Unpublished data]	Incident 9 Jan 2014	Home bedroom in Oklahoma	Rechargeable e-cigarette Vx battery, black, round, 4" long, 2 & 1/8" around by Hangzhou Weiko Info & Tech Co Ltd USB charger in computer	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No injuries	70, Female User	Projectile landed under bed and burned hardwood floors, creating fumes.	Consumer stated there should be a warning on the batteries.

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CPSC by user [SaferProducts.gov. Report date 20 Feb 2014. Unpublished data]	Incident 15 Jan 2014	Home kitchen in Georgia	Recharge-able E-cigarette Ego-T (Product # 650 MAH), Brand Ego-T by Joyetech Wall charger	Product placed on charge for five hours. Heard loud cracking noises.	Overheating while charging, then melting of device part and smoke emission- followed by Fire.	Spouse burned three digits when unplugging device and extinguishing fire. No medical care.	26, Male Nonuser	Countertop was burned.	Unknown
CPSC by user [SaferProduct s.gov Report. Report date 27 Feb 2014. Unpublished data]	Incident 15 Nov 2013	Unknown setting in North Carolina	Rechargeable electronic cigarette, Brand V2 Power cigarette by One Complete USB charger in computer	Device was six weeks old.	Overheating during intermit-tent charging and “vaping” over six hours.	One centimeter second-degree burn of one finger from picking up device. No medical attention.	Unknown age, Female User	Not applicable	User described that the activation button did not turn off, and the device tip heated to 400+ degrees. One replacement device malfunctioned the same way.
CPSC by Fire Department [SaferProduct s.gov Report. Report date 27 Feb 2014. Unpublished data]	Incident 25 Jan 2014	Apartment in Ohio	Rechargeable Vaporz Ecigarette CE ROHS 2013 EGO CE4	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	Injury with first aid by non-medical professional.	50, Female	Fire and damage to apartment. Fire department responded.	Unknown

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CPSC by user [SaferProducts.gov Report. Report date 28 Jan 2014. Unpublished data]	Incident 26 Jan 2014	Unknown in Virginia	Rechargeable e-cigarette Ego (Model CE4650MAH)	Product placed on charge for one hour. Heard a pop and saw the battery unit bubbling on the side.	Overheating while charging followed by Fire when dropped after unplugging.	Friend unplugged the battery, burning hand and fingers. First aid received by non-medical professional.	24, Male Nonuser	When battery was dropped it ignited, burning carpet and sofa. Fire extinguished using water.	Retailer offered refund, apology, and stated they would inspect remaining inventory.
CPSC by user [SaferProducts.gov. Report date 25 Feb 2014. Unpublished data]	Incident 24 Feb 2014	Home in Missouri	Rechargeable with cartomizer Kanger KR808D-1 battery factory charger	Smoked brand new device once, then put it on charge for 10 minutes.	Explosion while charging followed by Fire.	Slight burn after projectile hit jaw area. Leg bruise from impact with desk while moving to avoid projectile. Upset by event with difficulty sleeping. First aid by non-medical professional.	50, Female User	Projectile ignited carpet. Fire extinguished by spouse.	Unknown

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CPSC by Fire Investigator [SaferProducts.gov Report. Report date 28 Feb 2014. Unpublished data]	Incident 28 Feb 2014	Home in California	Rechargeable lithium battery used to power e-cigarettes, Brand Ego C Twist from ShenZhen Joyetech Col. LTD USB charger in laptop computer	Product placed on charge for unspecified duration.	Explosion while charging followed by Fire.	No information	Unknown	Small fire with "residential damage."	Unknown
CPSC by spouse of user [SaferProducts.gov Report. Report date 24 Mar 2014. Unpublished data]	Incident 21 Mar 2014	Occupied parked automobile in Illinois	Rechargeable e-cigarette Car charger	Brand new device just purchased. Product placed on charge for two minutes.	Explosion while charging followed by Fire.	Burned finger did not require medical attention.	65, Female User	Plastic bag nearby ignited, burning carpet and console shelves. Fire extinguished by user with iced tea.	Unknown
CPSC by user [SaferProducts.gov Report. Report date 29 Apr 2014. Unpublished data]	Incident 20 Apr 2014	Home in Pennsylvania	Vapor E-cigarette (with nicotine)	Product placed on charge for 60 minutes.	Explosion while charging followed by Fire.	No injuries	Unknown age, Male User	Projectile landed on floor igniting carpet and a table leg, with flames 10-12" high and black smoke. User extinguished fire using water.	Retailer offered replacement product and requested return of damaged product, but consumer wants compensation for damages. Wholesaler pulled back retailer's inventory.

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CPSC by Fire Marshal [SaferProducts.gov Report. Report date 12 Aug 2014. Unpublished data]	Incident 6 Aug 2014	Home closet in Pennsylvania	LOGIC Gold Label E-cigarette	Product stored in backpack	Fire	No injuries	Unknown	Small fire	Fire investigator determined that the e-cigarette was the only ignition source.
CPSC by Friend [SaferProducts.gov Report. Report date 5 Jun 2015. Unpublished data]	Incident 22 Apr 2015	Bar in Arizona	"Electronic cigarette ASIPRE CF VV BATTERY by Eigate Technology (China)"	Product purchased 26 Oct 2014. Product was on bar counter, untouched for 20 to 30 minutes, followed by "small explosion type sound", followed by "strong burning smell", followed by "spinning uncontrollable on bar counter."	Overheating while idle.	No injuries	Unknown	"Bartender removed it using a wet rag and 'cooled it down.' " "Burn stain left on Formica bar top."	Unknown

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CPSC by Healthcare provider [SaferProducts.gov Report. Report date 9 May 2015. Unpublished data]	Incident 9 May 2015	Unknown setting in New Hampshire	Electronic cigarette ("Vape") battery, "Cigarella"	Unknown	Explosion in his hand.	Injury. Seen by medical professional.	22, Male	Unknown	Unknown
CPSC by Spouse of User [SaferProducts.gov Report. Report date 11 Jun 2015. Unpublished data]	Incident 9 Jun 2015	Residential garage in Oregon	USB charger model YG1017 that connects to the battery of a vaporizer/electronic cigarette	Approximate purchase date 2 Mar 2015. Product was placed on charge and unattended for an unspecified duration. Resident smelled burning plastic.	Fire while charging.	No information.	Unknown age, Male User	Charger was on fire. No information on the method used to extinguish the fire.	Unknown

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CPSC by Healthcare Professional [SaferProducts.gov Report. Report date 24 Jul 2015. Unpublished data]	Incident 12 Jul 2015	Home in New Mexico	Electronic cigarette	Unknown	Explosion during use.	User drove to the healthcare facility presenting with pain, painful swallowing, and no airway blockage. Exam showed upper lip swelling with a linear burn and chipped upper teeth, black "charred-like" skin wound, tenderness in the region, rapid heartbeat and no active bleeding. User was hospitalized. Imaging showed a metallic-appearing foreign body lodged near the spine with small fractures of the 1 st and 2 nd cervical vertebrae. Treatment included antibiotics, pain killer, and intravenous fluids. The foreign body was surgically removed via the mouth. User returned to work wearing a C-spine collar 9 days after surgery.	27, Male User	No information	Unknown
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*Recipient by Reporter [in-text reference number]	Date	Event Setting in State	Product(s)	Precedent Activities and Perceived Harbingers	Event Type or Description	Injury or Health Effect	Affected or Involved's Age in Years, Gender, User Status (when known)	Fire or Property Damage Description and Control Measures	Postulated Cause(s) and Response(s)
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CPSC by User [SaferProduct.s.gov Report. Report date 23 Jul 2015. Unpublished data]	Incident 21 Jul 2015	Home in Colorado	Enzy "electric cigarette lighter battery" Battery purchased from "E-vapor bar"	Product placed on charge for an unspecified duration. Purchase date was about 4 Apr 2015	Explosion with Fire after charging.	No injury	Unknown age, Female	The battery became a projectile and its flames burned the carpet. Resident contained the fire using water. There were "no extensive damages."	Unknown
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Events reported to the United States Coast Guard National Response Center

USCG by "caller" [96]	Incident 25 Apr 2015	Passenger airplane upon landing in Virginia	E-cigarette with lithium battery	Product was in a passenger's carry-on bag for unspecified duration and "leaking acid."	Overheating during storage.	No injuries	Unknown	Data coded as "fire =N." "Burned a hole through the bag. Burned the carpet." Filled the cabin with smoke. Emergency airplane evacuation took place.	"Other" cause. Airplane was taken "offline."
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Table S2: Summary of 92 Electronic Nicotine Delivery System Overheating/Fire/Explosion Events in the U.S.

*Recipient by Reporter [in-text reference number]	Date	Event Setting in State	Product(s)	Precedent Activities and Perceived Harbingers	Event Type or Description	Injury or Health Effect	Affected or Involved's Age in Years, Gender, User Status (when known)	Fire or Property Damage Description and Control Measures	Postulated Cause(s) and Response(s)
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USCG by "caller" [97]	Incident 1 May 2015	United Parcel Service Package Center in Florida	E-cigarettes with lithium metal	Products were packaged for an unspecified duration and ready to be delivered.	Fire while in storage.	No injuries	Unknown	Employees extinguished a small fire. No evacuation.	"Unknown" cause.
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Notes:

*For reports to more than one entity, the primary receiving entity is listed first.

Glossary

FAA: United States Department of Transportation/Federal Aviation Administration

FDA: United States Department of Health & Human Services/Food & Drug Administration

CPSC: United States Consumer Product Safety Commission

USCG: United States Coast Guard/National Response Center

USB = universal serial bus