

Novichok nerve agent

Russian opposition leader Alexey Navalny, who is in an intensive care unit in Berlin, was poisoned with a nerve agent from the Novichok group, according to tests at a German military laboratory

■ **Origin:** Created in Soviet Union in 1970s and 1980s. Made with agrochemicals so that nerve agent could be hidden from *Organisation for the Prohibition of Chemical Weapons*

■ **Toxicity:** Believed to be five to 10 times more lethal than VX and sarin nerve agents, and harder to identify

■ **Variants:** Exists in liquid or solid form, including ultra-fine powder. Can be stored or carried as two less toxic ingredients, which become lethal when mixed

■ **Effect:** Occurs within as little as 30 seconds to two minutes if agent is inhaled or touches skin. Fine powder can take 18 hours to act

■ **Exposure:** Victim's clothing should be removed and their skin washed with soap and water. Antidotes such as oximes can be effective if administered quickly. **Some Novichok variants specifically designed to resist standard antidotes**



SYMPTOMS: Messages between nerves and muscles are blocked – causing bodily functions to collapse

Brain: Reduced oxygen in body can lead to coma and brain damage

Eyes: Pupils constricted

Skin: Profuse sweating

Lungs: Breathing inhibited, extreme fluid secretion

Heart: Abnormal blood pressure and heart rate

Digestive system
Nausea, vomiting and diarrhoea

Typically, muscle spasms and seizures occur, leading to death by asphyxiation or cardiac arrest

