

# Key search 2E (retrospective, with NTP neurotoxicity terms)

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**This is a paper for discussion. This does not represent the views of the Committee and should not be cited.**

104. (((("Fluorides"[Mesh:NoExp] OR "Fluorides, Topical"[Mesh] OR "Sodium Fluoride"[Mesh] OR "Calcium Fluoride"[Mesh] OR "sulfuryl fluoride" [Supplementary Concept] OR "hexafluorosilicic acid" [Supplementary Concept] OR "hexafluorosilicate" [Supplementary Concept] OR "potassium fluoride" [Supplementary Concept] OR "ammonium fluoride" [Supplementary Concept] OR "boron trifluoride" [Supplementary Concept] OR Fluoride[tiab] OR Fluorides[tiab] OR "16984-48-8"[tiab] OR 16984488[tiab] OR "Fluoride ion"[tiab] OR "Sulfuryl fluoride"[tiab] OR "sulfonyl fluoride"[tiab] OR Vikane[tiab] OR "Fluorosilicic acid"[tiab] OR hydrofluorosilicate[tiab] OR "Sodium hexafluorosilicate"[tiab] OR "disodium hexafluorosilicate"[tiab] OR "sodium fluorosilicate"[tiab] OR "Sodium fluoride"[tiab] OR "Potassium fluoride"[tiab] OR "Calcium fluoride"[tiab] OR "Ammonium fluoride"[tiab] OR "Boron trifluoride"[tiab] OR "Diethyl ether-boron trifluoride"[tiab] OR (organopolysiloxanes[tiab] AND "fluorinated group\*" [tiab])) AND (((Aryl Hydrocarbon Hydroxylases[mh] OR Aryl Hydrocarbon Receptor Nuclear Translocator[mh] OR Behavior and Behavior Mechanisms[mh] OR Gene Expression Regulation[mh] OR Glucuronosyltransferase[mh] OR Intelligence tests[mh] OR Malate Dehydrogenase[mh] OR Mediator Complex Subunit 1[mh]

OR Mental disorders[mh] OR Mental processes[mh] OR Monocarboxylic Acid Transporters[mh] OR Myelin Basic Protein[mh] OR nervous system[mh] OR nervous system diseases[mh] OR nervous system physiological phenomena[mh] OR Neurogranin[mh] OR Oligodendroglia[mh] OR Peroxisome Proliferator-Activated Receptors[mh] OR Psychological Phenomena and Processes[mh] OR Receptors, thyroid hormone[mh] OR Receptors, thyrotropin[mh] OR Retinoid X Receptors[mh] OR thyroid diseases[mh] OR thyroid hormones[mh] OR Thyrotropinreleasing hormone[mh] OR Thyroxine-Binding Proteins[mh] OR Pregnane X Receptor[supplementary concept] OR thyroid-hormone-receptor interacting protein[supplementary concept] OR Constitutive androstane receptor[supplementary concept] OR Academic performance[tiab] OR auditory[tiab] OR cortical[tiab] OR delayed development[tiab] OR developmental impairment[tiab] OR developmental delay\*[tiab] OR developmental-disorder\*[tiab] OR euthyroid[tiab] OR gait[tiab] OR glia\*[tiab] OR gliogenesis[tiab] OR hyperactiv\*[tiab] OR impulse-control[tiab] OR iodide peroxidase[tiab] OR IQ[tiab] OR ischemi\*[tiab] OR locomotor[tiab] OR mental deficiency[tiab] OR mental development[tiab] OR mental illness[tiab] OR mental-deficit[tiab] OR mobility[tiab] OR mood[tiab] OR morris-maze[tiab] OR morris-water[tiab] OR motor abilit\*[tiab] OR Motor activities[tiab] OR motor performance[tiab] OR nerve[tiab] OR neural[tiab] OR Neurocognitive impairment[tiab] OR neurodegenerat\*[tiab] OR neurodisease\*[tiab] OR neurologic\*[tiab] OR neuromuscular[tiab] OR neuron\*[tiab] OR obsessive compulsive[tiab] OR OCD[tiab] OR olfaction[tiab] OR olfactory[tiab] OR open-field-test[tiab] OR passive avoidance[tiab] OR plasticity[tiab] OR senil\*[tiab] OR sociab\*[tiab] OR speech\*[tiab] OR spelling[tiab] OR stereotypic-movement\*[tiab] OR synap\*[tiab] OR tauopath\*[tiab] OR Thyroglobulin[tiab] OR Thyroid disease\*[tiab] OR thyroid gland[tiab] OR thyroid hormone\*[tiab] OR thyronine\*[tiab] OR visual motor[tiab] OR Visuospatial processing[tiab] OR water maze[tiab]) OR ((active-avoidance[tiab] OR ADHD[tiab] OR amygdala[tiab] OR antisocial[tiab] OR anxiety[tiab] OR anxious[tiab] OR asperger\*[tiab] OR attention deficit[tiab] OR autism[tiab] OR autistic[tiab] OR behavioral[tiab] OR behaviors[tiab] OR behavioural[tiab] OR behaviours[tiab] OR bipolar[tiab] OR cerebellum[tiab] OR cognition[tiab] OR cognitive[tiab] OR communicationdisorder\*[tiab] OR comprehension[tiab] OR cranial[tiab] OR dementia[tiab] OR dendrit\*[tiab] OR dentate-gyrus[tiab] OR depression[tiab] OR dextrothyroxine[tiab] OR diiodothyronine\*[tiab] OR diiodotyrosine[tiab] OR down syndrome[tiab] OR dyslexia[tiab] OR entorhinal cortex[tiab] OR epilep\*[tiab] OR gangli\*[tiab] OR goiter[tiab] OR graves-disease[tiab] OR hearing[tiab] OR hippocamp\*[tiab] OR human development[tiab] OR hyperthyroid\*[tiab] OR hypothalam\*[tiab] OR

hypothyroid\*[tiab] OR impulsiv\*[tiab] OR Intellectual disability[tiab] OR  
 intelligence[tiab] OR language[tiab] OR learning[tiab] OR lewy bod\*[tiab] OR long-  
 term potentiation[tiab] OR long-term synaptic depression[tiab] OR memory[tiab]  
 OR mental disorder\*[tiab] OR mental recall[tiab] OR monoiodotyrosine[tiab] OR  
 Motor activity[tiab] OR motor skill\*[tiab] OR multiple sclerosis[tiab] OR  
 myxedema[tiab] OR Nervous system[tiab] OR nervous-system[tiab] OR  
 neurit\*[tiab] OR optic[tiab] OR palsy[tiab] OR panic[tiab] OR  
 parahippocamp\*[tiab] OR paranoia[tiab] OR paranoid[tiab] OR parkinson\*[tiab]  
 OR perception[tiab] OR perforant\*[tiab] OR personality[tiab] OR phobia[tiab] OR  
 problem solving[tiab] OR proprioception[tiab] OR psychomotor[tiab] OR  
 reflex[tiab] OR risk taking[tiab] OR schizophrenia[tiab] OR seizure\*[tiab] OR  
 sensation\*[tiab] OR sleep[tiab] OR smell[tiab] OR spatial behavior[tiab] OR  
 stroke[tiab] OR substantia-nigra[tiab] OR taste[tiab] OR thyroiditis[tiab] OR  
 thyrotoxicosis[tiab] OR Thyrotropin[tiab] OR thyroxine[tiab] OR  
 triiodothyronine[tiab] OR vision[tiab]) NOT medline[sb])) NOT ("Attention"[Mesh]  
 OR "Brain"[Mesh] OR "Brain/growth and development"[Mesh] OR "Cognition  
 Disorders"[Mesh] OR "Cognition"[Mesh] OR "Dementia"[Mesh] OR "Intelligence  
 Tests"[Mesh] OR "Intelligence"[Mesh] OR "Learning Disabilities"[Mesh] OR  
 "Learning"[Mesh] OR "Memory and Learning Tests"[Mesh] OR "Memory  
 Disorders"[Mesh] OR "Memory"[Mesh] OR "Nervous System Diseases"[Mesh] OR  
 "Nervous System"[Mesh] OR "Neurobehavioral Manifestations"[Mesh] OR  
 "Neurocognitive Disorders"[Mesh] OR "Neurodevelopmental disorders"[Mesh] OR  
 "Neurotoxicity Syndromes"[Mesh] OR ((Attention[tiab] OR Behav\*[tiab] OR  
 Brain[tiab] OR Brains[tiab] OR cognit\*[tiab] OR Coordination[tiab] OR  
 develop\*[tiab] OR neur\*[tiab] OR nervous[tiab] OR mental[tiab]) AND  
 (deficit\*[tiab] OR diagnosis[tiab] OR diagnoses[tiab] OR disease\*[tiab] OR  
 disorder\*[tiab] OR dysfunction\*[tiab] OR impair\*[tiab] OR manifestation\*[tiab] OR  
 problem\*[tiab] OR retard\*[tiab] OR syndrome\*[tiab] OR patholog\*[tiab])) OR  
 (DNT[tiab] NOT dinitrotoluene[tiab]) OR "barnes maze"[tiab] OR "Biel Maze"[tiab]  
 OR "Charcot-Marie-Tooth"[tiab] OR "Cincinnati Maze"[tiab] OR "Contextual  
 Fear"[tiab] OR "developmental period\*[tiab] OR "Guillain-Barre syndrome"[tiab]  
 OR "IQ-test\*[tiab] OR "Long term potentiation\*[tiab] OR "maze-test\*[tiab] OR  
 "mental-recall\*[tiab] OR "Morris water maze"[tiab] OR "nerve-transmi\*[tiab] OR  
 "Nervous system"[tiab] OR "Neuro-development\*[tiab] OR "Neuro-genes\*[tiab]  
 OR "neuronal-transmi\*[tiab] OR "neuro-transm\*[tiab] OR "Novel Object  
 recognition"[tiab] OR "passive avoidance"[tiab] OR "presynaptic-terminal\*[tiab]  
 OR "radial arm maze"[tiab] OR "Rey Osterieth Complex Figure"[tiab] OR  
 "rheumatoid arthritis"[tiab] OR "scholastic-achievement\*[tiab] OR "Sjogren's  
 syndrome"[tiab] OR "spontaneous alternation"[tiab] OR "Synaptic circuit\*[tiab]

OR "Synaptic dysfunction"[tiab] OR "Synaptic impair"[tiab] OR "Synaptic net"[tiab] OR "Synaptic nets"[tiab] OR "Synaptic network"[tiab] OR "Synaptic plasticity"[tiab] OR "synaptic-neurotransmi"[tiab] OR "synaptic-transmi"[tiab] OR "trace fear"[tiab] OR Amnesia[tiab] OR behav\*[tiab] OR Cerebell\*[tiab] OR Cerebr\*[tiab] OR Cortex[tiab] OR CVMT[tiab] OR Dementia[tiab] OR Hippocam\*[tiab] OR intelligence[tiab] OR learn\*[tiab] OR Locomot\*[tiab] OR memory[tiab] OR Neocortex[tiab] OR Neuroanatom\*[tiab] OR Neurobehav\*[tiab] OR Neurocognit\*[tiab] OR Neurodevelop\*[tiab] OR Neurodevelopment\*[tiab] OR Neurogenes\*[tiab] OR Neuropath\*[tiab] OR Neurotox\*[tiab] OR neurotransmi\*[tiab])) NOT ("Liver Diseases"[Mesh] OR "Liver"[Mesh] OR "Kidney Diseases"[Mesh] OR "Kidney"[Mesh] OR "Creatinine"[Mesh] OR "Chemical and Drug Induced Liver Injury"[Mesh] OR "Gastrointestinal Tract"[Mesh] OR "Urinary Bladder"[Mesh] OR "Urinary Tract"[Mesh] OR "Urologic Diseases"[Mesh] OR "Pancreas"[Mesh] OR "Spleen"[Mesh] OR Hepat\*[tiab] OR liver\*[tiab] OR hepatotox\*[tiab] OR creatinine\*[tiab] OR gamma-glutamyl\*[tiab] OR transaminase\*[tiab] OR aminotransferase\*[tiab] OR kidney\*[tiab] OR nephrotox\*[tiab] OR renal[tiab] OR Bowel\*[tiab] OR gastrointestinal\*[tiab] OR Gut[tiab] OR Guts[tiab] OR Intestinal\*[tiab] OR Urin\*[tiab] OR Urogenital\*[tiab] OR Pancrea\*[tiab] OR Spleen[tiab] OR "Respiratory System"[Mesh] OR Alveol\*[tiab] OR Bronch\*[tiab] OR Larynx\*[tiab] OR Lung\*[tiab] OR Mucocil\*[tiab] OR Nasal\*[tiab] OR Naso\*[tiab] OR Nose[tiab] OR Noses[tiab] OR Pharynx\*[tiab] OR Pulmon\*[tiab] OR "Respiratory system"[tiab] OR Rhino\*[tiab] OR Trache\*[tiab] OR "Fluorosis, Dental"[Mesh] OR "Tooth Diseases"[Mesh:NoExp] OR Fluoros\*[tiab] OR "Dental diseas\*[tiab] OR "Mottled Enamel\*[tiab] OR "Skeletal diseas\*[tiab] OR "Tooth diseas\*[tiab] OR "Teeth diseas\*[tiab] OR "abnormalities"[Subheading] OR "adverse effects" [Subheading] OR "Chemically-Induced Disorders"[Mesh] OR "complications" [Subheading] OR "injuries" [Subheading] OR "Long Term Adverse Effects"[Mesh] OR "pathogenicity" [Subheading] OR "Toxicity Tests"[Mesh] OR "toxicity" [Subheading] OR "Toxicological Phenomena"[Mesh] OR ((adverse[tiab] OR chronic[tiab] OR fatal[tiab] OR harmful\*[tiab] OR negative[tiab] OR serious[tiab] OR side[tiab] OR Subchronic[tiab] OR undesirable[tiab])) AND (effect\*[tiab] OR event\*[tiab] OR outcome\*[tiab] OR reaction\*[tiab])) OR Abnormal\*[tiab] OR Anomal\*[tiab] OR "Benchmark dose"[tiab] OR "Benchmark doses"[tiab] OR BMD[tiab] OR BMDL[tiab] OR Complication\*[tiab] OR Deficien\*[tiab] OR Deleterious[tiab] OR "Dose effect"[tiab] OR "Dose response"[tiab] OR Hazard\*[tiab] OR injurious[tiab] OR Intox\*[tiab] OR LOEL[tiab] OR LOAEL[tiab] OR "Lowest Observable Adverse effect level\*[tiab] OR "Lowest Observed Adverse effect level\*[tiab] OR Malformation\*[tiab] OR NOAEL[tiab] OR NOAELs[tiab] OR NOEL[tiab] OR NOELs[tiab] OR "No Observable Adverse Effect

Level\*[tiab] OR "No Observed Adverse Effect Level\*[tiab] OR "No Observed  
 Effect Level\*[tiab] OR Pathogenic\*[tiab] OR Patholog\*[tiab] OR  
 Physiopatholog\*[tiab] OR Toxic\*[tiab] OR Unhealth\*[tiab] OR Unsafe[tiab] OR  
 "Allergens"[Mesh] OR "Allergy and Immunology"[Mesh] OR "Asthma"[Mesh] OR  
 "Hypersensitivity"[Mesh] OR "Immune System"[Mesh] OR "Immune System  
 Diseases"[Mesh] OR "Immune System Phenomena"[Mesh] OR  
 "Immunomodulation"[Mesh] OR "Immunologic Factors"[Mesh] OR allerg\*[tiab] OR  
 Antibod\*[tiab] OR Antigen\*[tiab] OR Asthma[tiab] OR Autoimmun\*[tiab] OR "cell-  
 mediated response"[tiab] OR Histamin\*[tiab] OR Hypersensitiv\*[tiab] OR  
 "Humoral Response"[tiab] OR immun\*[tiab] OR Leukocyt\*[tiab] OR  
 Lymphocyt\*[tiab] OR sensitisation[tiab] OR sensitization[tiab] OR "T cell\*[tiab]  
 OR "B cell\*[tiab] OR "Natural killer cell\*[tiab] OR Monocyt\*[tiab] OR  
 Neutrophil\*[tiab] OR Dendritic cell\*[tiab] OR Macrophage\*[tiab] OR  
 "Aneugens"[Mesh] OR "Aneuploidy"[Mesh] OR "Apoptosis"[Mesh] OR "Cell  
 Cycle"[Mesh] OR "Cell Hypoxia"[Mesh] OR "Cell line"[Mesh] OR "Cell  
 Proliferation"[Mesh] OR "Cell Survival"[Mesh] OR "Chromosome  
 Aberrations"[Mesh] OR "Chromosomes"[Mesh] OR "Comet Assay"[Mesh] OR  
 "Cytotoxicity Tests, Immunologic"[Mesh] OR "Cytotoxicity, Immunologic"[Mesh]  
 OR "DNA Adducts"[Mesh] OR "DNA Damage"[Mesh] OR "DNA  
 Fragmentation"[Mesh] OR "Free Radicals"[Mesh] OR "Genomic Instability"[Mesh]  
 OR "Homeostasis"[Mesh] OR "Mutagenesis"[Mesh] OR "Mutagenicity Tests"[Mesh]  
 OR "Mutagens" [Pharmacological Action] OR "Mutagens"[Mesh] OR  
 "Mutation"[Mesh] OR "Oxidative Stress"[Mesh] OR "Reactive Oxygen  
 Species"[Mesh] OR "Sister Chromatid Exchange"[Mesh] OR ((Cell[tiab] OR  
 cells[tiab] OR cellular[tiab]) AND (hypoxi\*[tiab] OR homeosta\*[tiab] OR  
 impairment\*[tiab] OR necro\*[tiab] OR toxicity[tiab] OR prolifer\*[tiab] OR  
 grow\*[tiab] OR survival[tiab])) OR ((DNA[tiab] OR gene\*[tiab]) AND (deletion[tiab]  
 OR mutation[tiab] OR adducts[tiab] OR binding[tiab] OR break\*[tiab] OR  
 fragment\*[tiab] OR damage\*[tiab] OR impair\*[tiab] OR inhibit\*[tiab] OR  
 lesion\*[tiab] OR injur\*[tiab] OR repair\*[tiab])) OR "AMES assay"[tiab] OR "AMES  
 test\*[tiab] OR Aneugen\*[tiab] OR Aneuploid\*[tiab] OR Antioxid\*[tiab] OR Apopto\*  
 [tiab] OR Catalase[tiab] OR Chromatid\*[tiab] OR Chromosom\*[tiab] OR  
 Cytogen\*[tiab] OR cytotox\*[tiab] OR Clastogen\*[tiab] OR "COMET assay"[tiab] OR  
 "COMET test\*[tiab] OR "Genetic material\*[tiab] OR Genotox\*[tiab] OR "Genomic  
 instability"[tiab] OR "glutathione peroxidase"[tiab] OR Heterozyg\*[tiab] OR  
 "Micronucleus assay"[tiab] OR "Micronucleus test\*[tiab] OR Mitogen\*[tiab] OR  
 Mutagen\*[tiab] OR Mutation\*[tiab] OR Necros\*[tiab] OR Oxidat\*[tiab] OR  
 Peroxid\*[tiab] OR Polymorph\*[tiab] OR Radical[tiab] OR Radicals[tiab] OR  
 "Reactive oxygen species"[tiab] OR ROS[tiab] OR "Superoxide-dismutase"[tiab]

OR Transgen\*[tiab] OR "Inflammation"[Mesh] OR "Inflammation Mediators"[Mesh]  
 OR Angiotensin\*[tiab] OR Chemokin\*[tiab] OR Cytokin\*[tiab] OR Inflam\*[tiab] OR  
 Kinin\*[tiab] OR Neuroinflam\*[tiab] OR Proinflam\*[tiab] OR "Pro-inflam\*[tiab] OR  
 Thromboinflam\*[tiab] OR "Angiogenesis Inducing Agents" [Pharmacological  
 Action] OR "Angiogenesis Inducing Agents"[Mesh] OR "Carcinogenesis"[Mesh] OR  
 "Carcinogenicity Tests"[Mesh] OR "Carcinogens"[Mesh] OR "Myelodysplastic-  
 Myeloproliferative Diseases"[Mesh] OR "Neoplasms"[Mesh] OR Adenoca\*[tiab] OR  
 Angiogen\*[tiab] OR Cancer\*[tiab] OR Carcino\*[tiab] OR Cocarcino\*[tiab] OR  
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 Melano\*[tiab] OR Metasta\*[tiab] OR Myeloma\*[tiab] OR Neoplas\*[tiab] OR  
 Precancer\*[tiab] OR Oncogen\*[tiab] OR Oncolog\*[tiab] OR Osteoma\*[tiab] OR  
 Sarcoma\*[tiab] OR Tumor\*[tiab] OR Tumour\*[tiab] OR "Embryonic  
 Development"[Mesh] OR "Fetal Development"[Mesh:NoExp] OR  
 "Neurodevelopmental disorders"[Mesh] OR "Embryonic and Fetal  
 Development"[Mesh:NoExp] OR "Abortion, Spontaneous"[Mesh] OR "Abortion,  
 Threatened"[Mesh] OR "Abortion, Veterinary"[Mesh] OR "Animals,  
 Newborn"[Mesh] OR "Breast Feeding"[Mesh] OR "Congenital Abnormalities"[Mesh]  
 OR "Congenital, Hereditary, and Neonatal Diseases and Abnormalities"[Mesh] OR  
 "Embryo, Mammalian"[Mesh] OR "Embryonic Structures"[Mesh:noexp] OR  
 "Estrous Cycle"[Mesh] OR "Fertility"[Mesh] OR "Fetal Diseases"[Mesh] OR "Fetal  
 Growth Retardation"[Mesh] OR "Fetal Organ Maturity"[Mesh] OR "Fetus"[Mesh]  
 OR "Genitalia"[Mesh] OR "Growth and Development"[Mesh] OR "Infant,  
 Newborn"[Mesh] OR "Infertility"[Mesh] OR "Lactation"[Mesh] OR "Milk,  
 Human"[Mesh] OR "Menstrual Cycle"[Mesh] OR "Organogenesis"[Mesh:NoExp] OR  
 "Pregnancy Complications"[Mesh] OR "Pregnancy"[Mesh] OR "Prenatal  
 Injuries"[Mesh] OR "Reproduction"[Mesh] OR "Reproductive Physiological  
 Phenomena"[Mesh:noexp] OR "Spermatocytes"[Mesh] OR "Teratogenesis"[Mesh]  
 OR "Teratogens"[Mesh] OR abort\*[tiab] OR Breast\*[tiab] OR Cervic\*[tiab] OR  
 Cervix[tiab] OR embryo\*[tiab] OR Estrous[tiab] OR Estrus[tiab] OR fertility[tiab]  
 OR Fetal\*[tiab] OR fetotoxic\*[tiab] OR fetus[tiab] OR Foetotoxic\*[tiab] OR  
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 OR "Human milk\*" [tiab] OR Infant\*[tiab] OR infertil\*[tiab] OR Lactating[tiab] OR  
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 Oestrous[tiab] OR Oestrus[tiab] OR Ovar\*[tiab] OR Parturition[tiab] OR  
 Placent\*[tiab] OR "post-partum" [tiab] OR postpartum[tiab] OR pregnanc\*[tiab] OR  
 premature[tiab] OR prenatal[tiab] OR Reproduct\*[tiab] OR sperm\*[tiab] OR  
 teratogen\*[tiab] OR Testes[tiab] OR Testic\*[tiab] OR Testis[tiab] OR Uterin\*[tiab]  
 OR Uterus[tiab] OR Uteruses[tiab] OR Vagin\*[tiab])) AND ("Animals,  
 Laboratory"[Mesh] OR "Dogs"[Mesh] OR "Guinea Pigs"[Mesh:noExp] OR

"Mice"[Mesh] OR "Primates"[Mesh:noExp] OR "Rabbits"[Mesh] OR "Rats"[Mesh] OR "Rodentia"[Mesh:noexp] OR "Swine"[Mesh] OR Dog[tiab] OR Dogs[tiab] OR "Laboratory animal\*" [tiab] OR Mice[tiab] OR Monkey[tiab] OR Monkeys[tiab] OR Mouse[tiab] OR Pig[tiab] OR Pigs[tiab] OR Primate[tiab] OR Primates[tiab] OR Rabbit[tiab] OR Rabbits[tiab] OR Rat[tiab] OR Rats[tiab] OR Rodent\*[tiab] OR Swine[tiab]) NOT Perfluor\*[tiab]) AND (("2019/04/01"[Date - Publication] : "2024/01/24"[Date - Publication])) AND (English[Language]) NOT ("sulfuryl fluoride" [Supplementary Concept] OR "Sulfuryl fluoride\*" [tiab] OR "sulfonyl fluoride\*" [tiab] OR Vikane[tiab]).