

Khesmis Hexabromocyclododecane (HBCD)

Khesmis HBCD yog dabtsi?

Khesmis Hexabromocyclododecane (HBCD) yog cov tshuaj txuag rau cov khoom kom qhov khoom ntawd tsis txhob txais hluav taws zoo. Txij thaum 2018, cov tuam txhab tsim khoom siv hauv teb chaws Asmesmesliskas tau tsum tsis siv cov khesmis HBCD rau tej khoom lawm. Txawm li ntawd los, cov khesmis no yav tag los tau siv rau cov rwb phab ntsa tsev thiab thaum tsim tej yam khoom siv hauv vaj tse, suav nrog rau cov rooj tog zaum, cov txaj muaj pam rwb, cov ntaub thaiv phab ntsa, cov ntaub thaiv qhov rais, thiab cov cuab yeej fai fab. Tsab cai [Minnesota Statute 325F.071](#) txwv cov chaw tsim khoom, muag khoom, thiab xa tawm menyuam tej cov khoom siv, cov rooj tog xaws nrog ntaub rau siv hauv tsev, tej khoom siv ua nrog ntaub, thiab cov txaj muaj daim pam rwb uas muaj cov khesmis HBCD siab tshaj 1,000 feem nyob rau ib lab hauv cov khoom siv. Khesmis HBCD tau muaj feem xyuam ntawm kev phom sij fab kev noj qab haus huv uas txhawj xeeb rau cov menyuam mos ab, cov menyuam me, thiab cov neeg uas xeeb tub hauv plab.

Khesmis HBCD nhriav pom muaj rau cov khoom siv hauv tsev, feem ntau nyob rau cov khoom siv hauv tsev uas qub qub lawm (tsim xyoo 2018 los yog ua ntej ntawd), xws li:

- Menyuam yaus cov khoom (cov pam, khaub ncaws, thiab khoom ua si uas qub qub lawm).
- Cov rooj tog zaum uas xaws nrog ntaub.
- Tej yam khoom siv hauv vaj tse uas uas nrog ntaub.
- Cov pam pua txaj muaj rwb uas siv tshuaj txuag kom txhob kub hnyiab zoo.

Leej twg yog cov yuav kov chwv raug thiab txais tau kev phom sij ntau tshaj plaws?

- Cov menyuam mos thiab menyuam yaus yog cov muaj kev phom sij ntau tshaj plaws vim lawv nyob ze rau ntawm npoo av thiab nqus tau cov pa thiab noj tau cov plua plav yam tsis ras txog. Cov menyuam yaus uas lub cev me zog thiab lawv tej siab ntsws plab plawv hauv nruab nrog cev tseem tab tom loj hlob ua rau lawv yog cov tau txais kev phom sij ntau dua rau kev noj qab haus huv.
- Cov neeg xeeb tub hauv plab thiab cov menyuam tseem tsis tau yug kuj yog cov muaj kev phom sij thiab vim kev chwv raug cov khesmis cuam tshuam tau rau txoj kev loj hlob.

Cov neeg xeeb menyuam hauv plab raug thiab chww tau cov khesmis HBCD li cas?

- Siv cov khoom hauv tsev es qub qub (tsim xyoo 2018 los yog ua ntej ntawd, suav nrog rau cov pam rwb pua txaj, cov rooj tog zaum, tej ntaub thaiv phab ntsa, thiab tej ntaub npog qhov rais) uas tsim tawm nrog cov khesmis HBCD.
- Ua pa nqus tau cov plua plav ntawm cov khoom hauv vaj tse uas tsuas nrog cov khesmis HBCD. Khesmis HBCD dim pa tawm tau ntawm cov khoom siv hauv vaj tse los yog los ntawm cov rwb qub qub siv thaiv phab ntsa tsev los mus xyaw rau tej plua plav hauv tsev.

Cov menyuam mos ab thiab menyuam yaus raug thiab chww tau cov khesmis HBCD li cas?

- Ua pa nqus tau cov plua plav ntawm cov khoom hauv vaj tse uas tsuas nrog cov khesmis HBCD. Khesmis HBCD dim pa tawm tau ntawm cov khoom siv hauv vaj tse los yog los ntawm cov rwb qub qub siv thaiv phab ntsa tsev los mus xyaw rau tej plua plav hauv tsev.
- Noj tau cov plua plav hauv vaj tse uas tsuas nrog cov khesmis HBCD vim kev ua si nquag cev tes rau qhov ncauj.

Yuav ua li cas thiaj txo tau kev chww raug cov khesmis HBCD?

- Tu cov kav uas tshuab pa kub pa txias hauv koj lub tsev thiab nquag siv tshuab nqus tej chaw chaw nyob hauv koj lub tsev.
- Nquag so tej rooj tog thiab txee nrog ib daim phuam ntub dej.
- Yog tias ua tau, tshem tawm thiab muab pov tseg tej yam khoom siv hauv tsev uas qub qub lawm (tsim xyoo 2013 lossis ua ntej ntawd) xws li daim pam rwb pua txaj, cov rooj tog zaum, cov cuab yeej fai fab, thiab tej kaspev pua tsev uas tej zaum muaj cov khesmis decaBDE.
- Xav txog kev yuav cov rooj tog zaum uas tsis muaj cov khesmis txuag kom txhob kub hluav taws zoo.
- Ntxuav tes ua ntej yuav npaj zaub mov noj los yog yuav noj mov thiab tom qab thaum menyuam yaus ua si tas.

Tej yam kev txhawj xeeb fab kev noj qab haus huv ntawm cov khesmis HBCD yog dabtsi?

Kev tshawb fawb ntawm cov tsiaj nyob rau chav kawm tau qhia pom tias muaj kev cuam tshuam tsis zoo rau kev noj qab haus huv thaum chww raug cov khesmis no. Cov kev cuam tshuam no tsim kev txhawj xeeb rau tib neeg kev noj qab haus huv thiab yog ib qho tseem ceeb yuav tau ua tib zoo xyuas, tshwj xeeb yog rau cov menyuam yaus. Menyuam yaus tiv tsis taus cov tshuaj khesmis no li neeg laus, thiab qhov uas menyuam yaus raug thiab chww cov khesmis no muaj heev dua vim yog tej kev ua si uas nquag siv tes kov chww qhov ncauj. Tej yam kev cuam tshuam rau kev noj qab haus huv uas pom muaj nyob rau cov tsiaj hauv chav kawm yog xws li:

- Cuam tshuam rau tus cwj pwm.
- Txhawj xeeb txog lub hlwb kev loj hlob.
- Phom sij rau kev xeeb noob neej.
- Teeb meem rau lub qog thyroid.
- Phom sij rau daim siab.

Cov ntaub ntawv qhia ntxiv

[CDC | What employers should know about reproductive health](https://www.cdc.gov/niosh/reproductive-health/about/employers.html)
(<https://www.cdc.gov/niosh/reproductive-health/about/employers.html>)

[NIH | Flame Retardants and Your Health \(PDF\)](https://www.niehs.nih.gov/health/materials/flame_retardants_508.pdf)
(https://www.niehs.nih.gov/health/materials/flame_retardants_508.pdf)

[Connecticut Department of Public Health | Flame Retardants in Children's Products \(PDF\)](https://portal.ct.gov/-/media/dcp/migrated-docs/flameretardantfactsheetpdf.pdf)
(<https://portal.ct.gov/-/media/dcp/migrated-docs/flameretardantfactsheetpdf.pdf>)

[EPA | Risk Evaluation for Cyclic Aliphatic Bromide Cluster \(HBCD\)](https://www.epa.gov/sites/default/files/2020-09/documents/1._risk_evaluation_for_cyclic_aliphatic_bromide_cluster_hbcd_casrn25637-99-4_casrn_3194-5_casrn_3194-57-8.pdf)
(https://www.epa.gov/sites/default/files/2020-09/documents/1._risk_evaluation_for_cyclic_aliphatic_bromide_cluster_hbcd_casrn25637-99-4_casrn_3194-5_casrn_3194-57-8.pdf)

[EPA | Nontechnical Summary of the Risk Evaluation for Cyclic Aliphatic Bromide Cluster \(HBCD\) \(PDF\)](https://www.epa.gov/system/files/documents/2022-06/non_tech_summary_HBCD_6_22_22.pdf)
(https://www.epa.gov/system/files/documents/2022-06/non_tech_summary_HBCD_6_22_22.pdf)

[Office of the Revisor of Statutes | 325F.071 FLAME-RETARDANT CHEMICALS; PROHIBITION](https://www.revisor.mn.gov/statutes/cite/325F.071)
(<https://www.revisor.mn.gov/statutes/cite/325F.071>)

[EPA | Addition of Hexabromocyclododecane \(HBCD\) Category to TRI List Final Rule](https://www.epa.gov/toxics-release-inventory-tri-program/addition-hexabromocyclododecane-hbcd-category-tri-list-final)
(<https://www.epa.gov/toxics-release-inventory-tri-program/addition-hexabromocyclododecane-hbcd-category-tri-list-final>)

HEXABROMOCYCLODODECANE (HBCD)

Lub tuam tsev Minnesota Department of Health

[Toxic Free Kids Program](#)

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Xav tau cov ntaub ntawv no sau ua tus qauv txawv qhov no, hu rau: 651-201-4899.