HSDB Needs Assessment Survey
Consumer Path

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*1. Please enter the country, state or territory, and postal zip code where you are geographically located (work or home).

Country

State or territory

Postal zip code

*2. What is your gender?

○ Male

○ Female

*3. What is your age?

*4. What is your level of education?

○ High school

○ Some post high-school education

○ College degree

○ Graduate or professional degree

*5. How would you best (and primarily) identify yourself? (please check only one box)

○ Clinical Researcher

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○ Clinical Researcher

○ Basic Scientist

○ Information Science or Information Management Professional

○ Toxicologist

○ Health Safety and Environmental Specialist

○ Medical Professional

○ Student or Trainee in Science or Health-Related Field

○ Consumer or Patient

○ Consumer Advocate

○ Community Leader

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*6. How would you rate your computer skills?

○ **0=Limited** - I can turn it on and play a game or surf the internet.

○ **1=Sufficient** - I know my way around enough to handle simple tasks.

○ **2=Very Good** - I can handle most things on the computer with no problem.

○ **3=Advanced** - I can handle almost anything my computer can throw at me.

*7. How do you most often access online resources?

○ Office computer

○ Home computer

○ Smart phone (examples: iPhone, Droid)

○ Tablet or netbook (examples: iPad, Samsung Tablet)

Other

[   ]

*8. Please rate your level of agreement with the following statements: (5=strongly agree, 4=agree, 3=somewhat agree, 2=disagree, 1=strongly agree, 0=cannot comment)

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I worry about the effects of environmental pollution on my individual and/or family's health.	○	○	○	○	○	○
I do not feel safe because of the chemicals in the environment.	○	○	○	○	○	○
I wish I knew more about the potential toxicity						

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1=Sufficient - I know my way around enough to handle simple tasks.

○ 2=Very Good - I can handle most things on the computer with no problem.

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○ Smart phone (examples: iPhone, Droid)

○ Tablet or netbook (examples: iPad, Samsung Tablet)

Other

[   ]

*8. Please rate your level of agreement with the following statements: (5=strongly agree, 4=agree, 3=somewhat agree, 2=disagree, 1=strongly agree, 0=cannot comment)

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I worry about the effects of environmental pollution on my individual and/or family's health.	○	○	○	○	○	○
I do not feel safe because of the chemicals in the environment.	○	○	○	○	○	○
I wish I knew more about the potential toxicity, that is harm that could be caused, of chemicals or drugs that people are exposed to.	○	○	○	○	○	○
I wish there was an easy-to-understand ready source of toxicity information for chemicals or drugs that people are exposed to.	○	○	○	○	○	○
When I need to find out about something related to chemicals, drugs, or other hazards in the environment, I always start with Google.	○	○	○	○	○	○

*9. What are your top 3 concerns related to environmental health issues, that is exposure to chemicals, drugs, or other hazards in the environment? (Please only rank 3, and select "Not a top 3 concern" for all others)

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related to chemicals, drugs, or other hazards
in the environment, I always start with Google.

*9. What are your top 3 concerns related to environmental health issues, that is exposure to chemicals, drugs, or other hazards in the environment? (Please only rank 3, and select "Not a top 3 concern" for all others)

	3	2	1	Not a top 3 concern
Drinking water contaminants	○	○	○	○
Toxic spills or releases in the environment	○	○	○	○
Lead	○	○	○	○
Causes of asthma	○	○	○	○
Chemicals in makeup and personal care products	○	○	○	○
Pesticides	○	○	○	○
Indoor Air Quality	○	○	○	○
Outdoor Air Quality	○	○	○	○
Chemicals in Food and Drink	○	○	○	○
Children's Health	○	○	○	○
Cancer	○	○	○	○
Genetic Effects	○	○	○	○

Other:

[   ]

*10. How often do you have a need for information on environmental health issues?

○ **0=Never**

○ **1=Rarely** - Maybe a few times a year

○ **2=Occasionally** - About once per month

○ **3=Frequently** - More than once a month

*11. What typically causes you to seek information on environmental health issues?

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*11. What typically causes you to seek information on environmental health issues?

○ I see something on TV

○ My child was diagnosed with a disease or experiences symptoms

○ I read a book or article

○ I read a blog post or tweet

○ A friend or acquaintance tells me about something

○ My doctor provides me with information or instructions

Other:

[   ]

*12. Computer literature searching is the act of utilizing online electronic resources to find authoritative publications on a topic, such as a particular chemical or a particular disease. What is your level of familiarity with computer literature searching?

○ **0=Not at all familiar** - I almost never or never do computer literature searching

○ **1=Somewhat familiar** - I would be able to perform a basic search and probably find what I need but I don't do it very often

○ **2=Familiar** - I occasionally perform literature searches and can generally find what I need

○ **3=Very familiar** - I regularly perform computer literature searches online

*13. How familiar are you with the National Library of Medicine's Hazardous Substances Databank (HSDB)?

○ 1 Not at all familiar (Never heard of it)

○ 2 Somewhat familiar (Know of it but have never used it)

○ 3 Familiar (Use occasionally)

○ 4 Very familiar (Use on a regular or semi-regular basis)

○ 5 Expert (Intimately familiar; use on ongoing, regular basis)

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○ Some post high-school education

○ College degree

○ Graduate or professional degree

*5. How would you best (and primarily) identify yourself? (please check only one box)

○ Clinical Researcher

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*2. What is your gender?

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◯ Consumer or Patient

◯ Consumer Advocate

◯ Community Leader

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*6. What is your primary affiliation?

○ Government (Non Military) / Regulating Agency (ex: EPA, FDA)

○ Government (Non Military) / Non-Regulating Agency (ex: NIH, CDC)

○ Military

○ Academia

○ Pharmaceutical / Medical Device Company

○ Industry

○ Non-Profit

Other

[   ]

*7. Where do you perform most of your work?

○ In my work office

○ In my home office

○ In a library

○ In a classroom

○ In a medical office, hospital, or clinic

○ In the field

*8. With what frequency do you rely on electronic toxicology and environmental health resources like the Hazardous Substances Data Bank (HSDB) for the following?: (please rate each as 4=daily, 3=weekly, 2=monthly, 1=several times per year ((or less)), 0=never)

4 daily	3 weekly	2 monthly	1 several times per year (or less)	0 never

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○ In a medical office, hospital, or clinic

○ In the field

*8. With what frequency do you rely on electronic toxicology and environmental health resources like the Hazardous Substances Data Bank (HSDB) for the following?: (please rate each as 4=daily, 3=weekly, 2=monthly, 1=several times per year ((or less)), 0=never)

	4 daily	3 weekly	2 monthly	1 several times per year (or less)	0 never
To get a general overview of the available toxicology or environmental health information for a specific chemical	○	○	○	○	○
Looking for basic information on specific chemicals (e.g. structure, chemical properties)	○	○	○	○	○
Looking for the link between exposure and disease	○	○	○	○	○
Looking for reproductive or genetic effects of specific chemicals	○	○	○	○	○
Conducting risk assessment	○	○	○	○	○
Conducting scientific research	○	○	○	○	○
Responding to patient care	○	○	○	○	○
Looking for information on medicines or prescription drugs	○	○	○	○	○
Responding to a hazardous materials emergency	○	○	○	○	○
Looking for information on a specific disease, condition, diagnosis, or treatment	○	○	○	○	○
Working or assisting others with a school project	○	○	○	○	○

Other (You must add your appropriate rating scale number to the end of your descriptor)

[   ]

*9. What environmental and toxicology data sources do you frequently utilize? (please check all that apply)

☐ TOXNET   ☐ EBI (European Bioinformatics Institute) Database   ☐ Google Scholar

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Other (You must add your appropriate rating scale number to the end of your descriptor)

*9. What environmental and toxicology data sources do you frequently utilize? (please check all that apply)

☐ TOXNET

☐ Drug Information Portal

☐ Agency for Toxic Substances & Diseases Registry (ATSDR) Toxic Substances Portal

☐ Integrated Risk Information System (IRIS), EPA

☐ American Chemical Society, Chemical Abstracts Service (CAS) Databases

☐ ChemSpider

☐ Merck Index

☐ FDA Informatics and Computational Safety Analysis Staff (ICSAS) Toxicology Database

☐ NIEHS CEBS (Chemical Effects and Biological Systems)

☐ EBI (European Bioinformatics Institute) Database

☐ WISER (first responder database)

☐ IARC Monographs (International Agency for Research on Cancer)

☐ Comparative Toxicogenomics Database (CTD)

☐ National Toxicology Program (NTP)

☐ Toxic Release Inventory (TRI)

☐ MedLine/MedLinePlus

☐ PubMed

☐ PubChem

☐ Google Scholar

☐ International Toxicity Estimates for Risk Database (ITER)

☐ European Chemical Substances Information System (ESIS)

☐ Joint Meeting on Pesticide Residues (JMPR) Monographs

☐ Joint FAO/WHO Expert Committee on Food Additives (JECFA) Monographs

☐ Concise International Chemical Assessment Document (CICADS)

☐ International Chemical Safety Cards (ICSCs)

☐ Screening Information Datasets (SIDS) for High Production Volume Chemicals

Other (Please list as many as you wish)

*10. How familiar are you with the National Library of Medicine's Hazardous Substances Databank (HSDB)?

○ 1 Not at all familiar (never heard of it)

○ 2 Somewhat familiar (know of it but have never used it)

○ 3 Familiar (use occasionally)

○ 4 Very familiar (use on a regular or semi-regular basis)

○ 5 Expert (intimately familiar; use on ongoing, regular basis)

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	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I do not use the HSDB because it's too difficult to use or understand.	○	○	○	○	○	○
I do not use the HSDB because it doesn't contain the information I need.	○	○	○	○	○	○
I do not use the HSDB because I am not familiar with how to operate it.	○	○	○	○	○	○
I do not use the HSDB because I'm unaware of it.	○	○	○	○	○	○
I would use the HSDB if I knew more about it.	○	○	○	○	○	○
I would utilize online tutorials to get familiar with the HSDB.	○	○	○	○	○	○
I think there are training needs with regard to understanding what electronic environmental and toxicology resources exist and how best to utilize them.	○	○	○	○	○	○
I have benefited from information outreach efforts related to the utilization of data resources like the HSDB.	○	○	○	○	○	○
I primarily use Google to find what I'm looking for online.	○	○	○	○	○	○

*12. If you were starting from scratch what would you include in a new database of toxicology and environmental health information? (please check all that apply)

☐ Google-like search function

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*12. If you were starting from scratch what would you include in a new database of toxicology and environmental health information? (please check all that apply)

☐ Google-like search function

☐ Training resources like videos and online tutorials

☐ Breaking news / hot topics

☐ Health topics

☐ Encyclopedia of toxicology and environmental health

☐ Resources showing how people might be exposed to certain chemicals

*13. What content related to Human Health Effects is important to you? (please check all that apply)

☐ Toxicity Summary

☐ Evidence for Carcinogenicity

☐ Human Toxicity Excerpts

☐ Skin, Eye and Respiratory Irritations

☐ Drug Warnings

☐ Medical Surveillance

☐ Populations at Special Risk

☐ Probable Routes of Human Exposure

☐ Body Burden

☐ Average Daily Intake

☐ Reported Fatal Dose

☐ Does not apply

*14. What content related to Emergency Medical Treatment is important to you? (please check all that apply)

☐ Emergency Medical Treatment

☐ Antidote and Emergency Treatment

☐ Does not apply

*15. What content related to Animal Toxicity Studies is important to you? (please check all that apply)

☐ Toxicity Summary

☐ Evidence for Carcinogenicity

☐ Non-Human Toxicity Excerpts

☐ National Toxicology Program Studies

☐ Non-Human Toxicity Values

☐ Ecotoxicity Values

☐ Ongoing Test Status

☐ TSCA Test Submissions

☐ Does not apply

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National Toxicology Program Studies

☐ Non-Human Toxicity Values

☐ Does not apply

*16. What content related to <u>Metabolism/Pharmacokinetics</u> is important to you? (please check all that apply)

☐ Metabolism/Metabolites

☐ Absorption, Distribution & Excretion

☐ Biological Half-Life

☐ Mechanism of Action

☐ Interactions

☐ Does not apply

*17. What content related to <u>Pharmacology</u> is important to you? (please check all that apply)

☐ Therapeutic Uses

☐ Drug Warnings

☐ Interactions

☐ Reported Fatal Dose

☐ Does not apply

*18. What content related to <u>Environmental Fate & Exposure</u> is important to you? (please check all that apply)

☐ Environmental Fate/Exposure Summary

☐ Probable Routes of Human Exposure

☐ Body Burden

☐ Average Daily Intake

☐ Natural Pollution Sources

☐ Artificial Pollution Sources

☐ Environmental Fate

☐ Environmental Biodegradation

☐ Environmental Abiotic Degradation

☐ Environmental Bioconcentration

☐ Soil Adsorption/Mobility

☐ Volatilization from Water/Soil

☐ Environmental Water Concentrations

☐ Effluent Concentrations

☐ Sediment/Soil Concentrations

☐ Atmospheric Concentrations

☐ Food Survey Values

☐ Plant Concentrations

☐ Fish/Seafood Concentrations

☐ Milk Concentrations

☐ Other Environmental Concentrations

☐ Does not apply

*19. What content related to <u>Environmental Standards & Regulations</u> is important to you? (please check all that apply)

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*19. What content related to <u>Environmental Standards & Regulations</u> is important to you? (please check all that apply)

- [ ] FIFRA Requirements
- [ ] Acceptable Daily Intakes
- [ ] CERCLA Reportable Quantities
- [ ] RCRA Requirements
- [ ] Atmospheric Standards
- [ ] Clean Water Act Requirements

- [ ] Federal Drinking Water Standards
- [ ] State Drinking Water Standards
- [ ] State Drinking Water Guidelines
- [ ] FDA Requirements
- [ ] Allowable Tolerances
- [ ] Does not apply

*20. What content related to <u>Chemical/Physical Properties</u> is important to you? (please check all that apply)

- [ ] Molecular Formula
- [ ] Molecular Weight
- [ ] Color/Form
- [ ] Odor
- [ ] Taste
- [ ] Boiling Point
- [ ] Melting Point

- [ ] Critical Temperature & Pressure
- [ ] Density/Specific Gravity
- [ ] Heat of Combustion
- [ ] Heat of Vaporization
- [ ] Octanol/Water Partition Coefficient
- [ ] Solubilities
- [ ] Spectral Properties

- [ ] Surface Tension
- [ ] Vapor Density
- [ ] Vapor Pressure
- [ ] Relative Evaporation Rate
- [ ] Viscosity
- [ ] Other Chemical/Physical Properties
- [ ] Does not apply

*21. What content related to <u>Chemical Safety & Handling</u> is important to you? (please check all that apply)

- [ ] DOT Emergency Guidelines
- [ ] Odor Threshold
- [ ] Skin, Eye and Respiratory Irritations
- [ ] Fire Potential
- [ ] NFPA Hazard Classification
- [ ] Flammable Limits
- [ ] Flash Point

- [ ] Autoignition Temperature
- [ ] Fire Fighting Procedures
- [ ] Firefighting Hazards
- [ ] Explosive Limits & Potential
- [ ] Hazardous Reactivities & Incompatibilities
- [ ] Prior History of Accidents
- [ ] Immediately Dangerous to Life or Health

- [ ] Protective Equipment & Clothing
- [ ] Preventive Measures
- [ ] Shipment Methods and Regulations
- [ ] Storage Conditions
- [ ] Cleanup Methods
- [ ] Disposal Methods
- [ ] Does not apply

*22. What content related to <u>Occupational Exposure Standards</u> is important to you? (please check all that apply)

- [ ] OSHA Standards

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*22. What content related to <u>Occupational Exposure Standards</u> is important to you? (please check all that apply)

☐ OSHA Standards

☐ Threshold Limit Values

☐ NIOSH Recommendations

☐ Immediately Dangerous to Life or Health

☐ Other Standards Regulations and Guidelines

☐ Does not apply

*23. What content related to <u>Manufacturing/Use Information</u> is important to you? (please check all that apply)

☐ Major Uses   ☐ Consumption Patterns

☐ Manufacturers   ☐ U. S. Production

☐ Methods of Manufacturing   ☐ U. S. Imports

☐ General Manufacturing Information   ☐ U. S. Exports

☐ Formulations/Preparations   ☐ Does not apply

☐ Impurities

*24. What content related to <u>Laboratory Methods</u> is important to you? (please check all that apply)

☐ Clinical Laboratory Methods

☐ Analytic Laboratory Methods

☐ Sampling Procedures

☐ Does not apply

*25. What content related to <u>Special References</u> is important to you? (please check all that apply)

☐ Special Reports

☐ Does not apply

*26. What content related to <u>Synonyms and Identifiers</u> is important to you? (please check all that apply)

☐ Related HSDB Records

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☐ Clinical Laboratory Methods

☐ Analytic Laboratory Methods

☐ Sampling Procedures

☐ Does not apply

*25. What content related to <u>Special References</u> is important to you? (please check all that apply)

☐ Special Reports

☐ Does not apply

*26. What content related to <u>Synonyms and Identifiers</u> is important to you? (please check all that apply)

☐ Related HSDB Records

☐ Synonyms

☐ Formulations/Preparations

☐ Shipping Name/ Number DOT/UN/NA/IMO

☐ Standard Transportation Number

☐ EPA Hazardous Waste Number

☐ Does not apply

*27. What content related to <u>Administrative Information</u> is important to you? (please check all that apply)

☐ Hazardous Substances Databank Number

☐ Last Revision Date

☐ Last Review Date

☐ Update History

☐ Does not apply

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*1. Please enter the country, state or territory, and postal zip code where you are geographically located (work or home).

Country
[   ]

State or territory
[   ]

Postal zip code
[   ]

*2. What is your gender?

◯ Male

◯ Female

*3. What is your age?

[   ]

*4. What is your level of education?

◯ High school

◯ Some post high-school education

◯ College degree

◯ Graduate or professional degree

*5. How would you best (and primarily) identify yourself? (please check only one box)

◯ Clinical Researcher

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*2. What is your gender?

○ Male

○ Female

*3. What is your age?

*4. What is your level of education?

○ High school

○ Some post high-school education

○ College degree

○ Graduate or professional degree

*5. How would you best (and primarily) identify yourself? (please check only one box)

○ Clinical Researcher

○ Basic Scientist

○ Information Science or Information Management Professional

○ Toxicologist

○ Health Safety and Environmental Specialist

○ Medical Professional

○ Student or Trainee in Science or Health-Related Field

○ Consumer or Patient

○ Consumer Advocate

○ Community Leader

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*6. What is your primary affiliation?

○ Government (Non Military) / Regulating Agency (ex: EPA, FDA)

○ Government (Non Military) / Non-Regulating Agency (ex: NIH, CDC)

○ Military

○ Academia

○ Pharmaceutical / Medical Device Company

○ Industry

○ Non-Profit

Other

[   ]

*7. Where do you perform most of your work?

○ In my work office

○ In my home office

○ In a library

○ In a classroom

○ In a medical office, hospital, or clinic

○ In the field

*8. With what frequency do you rely on electronic toxicology and environmental health resources like the Hazardous Substances Data Bank (HSDB) for the following?: (please rate each as 4=daily, 3=weekly, 2=monthly, 1=several times per year ((or less)), 0=never)

4 daily	3 weekly	2 monthly	1 several times per year (or less)	0 never

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○ In a medical office, hospital, or clinic

○ In the field

*8. With what frequency do you rely on electronic toxicology and environmental health resources like the Hazardous Substances Data Bank (HSDB) for the following?: (please rate each as 4=daily, 3=weekly, 2=monthly, 1=several times per year ((or less)), 0=never)

	4 daily	3 weekly	2 monthly	1 several times per year (or less)	0 never
To get a general overview of the available toxicology or environmental health information for a specific chemical	○	○	○	○	○
Looking for basic information on specific chemicals (e.g. structure, chemical properties)	○	○	○	○	○
Looking for the link between exposure and disease	○	○	○	○	○
Looking for reproductive or genetic effects of specific chemicals	○	○	○	○	○
Conducting risk assessment	○	○	○	○	○
Conducting scientific research	○	○	○	○	○
Responding to patient care	○	○	○	○	○
Looking for information on medicines or prescription drugs	○	○	○	○	○
Responding to a hazardous materials emergency	○	○	○	○	○
Looking for information on a specific disease, condition, diagnosis, or treatment	○	○	○	○	○
Working or assisting others with a school project	○	○	○	○	○

Other (You must add your appropriate rating scale number to the end of your descriptor)

[   ]

*9. What environmental and toxicology data sources do you frequently utilize? (please check all that apply)

☐ TOXNET   ☐ EBI (European Bioinformatics Institute) Database   ☐ Google Scholar

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Other (You must add your appropriate rating scale number to the end of your descriptor)

*9. What environmental and toxicology data sources do you <u>frequently</u> utilize? (please check all that apply)

☐ TOXNET

☐ Drug Information Portal

☐ Agency for Toxic Substances & Diseases Registry (ATSDR) Toxic Substances Portal

☐ Integrated Risk Information System (IRIS), EPA

☐ American Chemical Society, Chemical Abstracts Service (CAS) Databases

☐ ChemSpider

☐ Merck Index

☐ FDA Informatics and Computational Safety Analysis Staff (ICSAS) Toxicology Database

☐ NIEHS CEBS (Chemical Effects and Biological Systems)

☐ EBI (European Bioinformatics Institute) Database

☐ WISER (first responder database)

☐ IARC Monographs (International Agency for Research on Cancer)

☐ Comparative Toxicogenomics Database (CTD)

☐ National Toxicology Program (NTP)

☐ Toxic Release Inventory (TRI)

☐ MedLine/MedLinePlus

☐ PubMed

☐ PubChem

☐ Google Scholar

☐ International Toxicity Estimates for Risk Database (ITER)

☐ European Chemical Substances Information System (ESIS)

☐ Joint Meeting on Pesticide Residues (JMPR) Monographs

☐ Joint FAO/WHO Expert Committee on Food Additives (JECFA) Monographs

☐ Concise International Chemical Assessment Document (CICADS)

☐ International Chemical Safety Cards (ICSCs)

☐ Screening Information Datasets (SIDS) for High Production Volume Chemicals

Other (Please list as many as you wish)

*10. How familiar are you with the National Library of Medicine's Hazardous Substances Databank (HSDB)?

○ 1 Not at all familiar (never heard of it)

○ 2 Somewhat familiar (know of it but have never used it)

○ 3 Familiar (use occasionally)

○ 4 Very familiar (use on a regular or semi-regular basis)

○ 5 Expert (intimately familiar; use on ongoing, regular basis)

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*11. Please rate your level of agreement with the following statements:

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
The HSDB is a high-level resource for experts in the field of toxicology and environmental health.	○	○	○	○	○	○
The HSDB is straightforward and easy to use.	○	○	○	○	○	○
The HSDB is a good starting point for understanding the potential risks, or toxicity, associated with a chemical.	○	○	○	○	○	○
The HSDB is my go-to resource for risk assessment.	○	○	○	○	○	○
I primarily us HSDB as a portal to other data sources.	○	○	○	○	○	○
I rely upon the HSDB because the data are peer reviewed.	○	○	○	○	○	○
The information contained in the HSDB is current.	○	○	○	○	○	○

If you answered the last statement with a 2 or 1, How current would information need to be to satisfy your needs (ex:<5 years, <1year, inclusive of new publications or information within the last 6 months)?

[   ]

*12. HSDB Users Rating Scale Continued

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
The information in HSDB is well organized.	○	○	○	○	○	○

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*12. HSDB Users Rating Scale Continued

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
The information in HSDB is well organized.	○	○	○	○	○	○

If you answered 2 or 1, please explain your answer

[   ]

*13. HSDB Users Rating Scale Continued

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I completely trust the information in the HSDB, as written.	○	○	○	○	○	○
Knowing that HSDB is a National Library of Medicine product increases my trust in the data.	○	○	○	○	○	○
When I am looking for toxicology or environmental health information I go to HSDB first.	○	○	○	○	○	○
The HSDB is not a comprehensive resource.	○	○	○	○	○	○
I have found HSDB to be missing important content.	○	○	○	○	○	○

If you answered 2 or 1 to the last question, please explain your answer

[   ]

*14. HSDB Users Rating Scale Continued

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I have left HSDB for other resources because of missing content.	○	○	○	○	○	○

If you answered 5 or 4, please explain your answer

[   ]

*15. HSDB Users Rating Scale Continued

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*15. HSDB Users Rating Scale Continued

	5 strongly agree	4 agree	3 somewhat agree	2 disagree	1 strongly disagree	0 cannot comment
I have left HSDB for other resources because of difficulty in navigating the website.	○	○	○	○	○	○
I have left HSDB for other resources because the information is not current.	○	○	○	○	○	○
I would benefit from additional HSDB training resources, such as web-based tutorials.	○	○	○	○	○	○
I primarily access HSDB information from a desktop or laptop computer.	○	○	○	○	○	○
I would utilize a mobile application for HSDB.	○	○	○	○	○	○
I find the content of HSDB to be textually dense and sometimes overwhelming.	○	○	○	○	○	○
An enhanced search function would make HSDB a more valuable tool.	○	○	○	○	○	○
HSDB should provide more international information (data and regulations).	○	○	○	○	○	○
I often end up at HSDB through other electronic resources (Google, other databases)	○	○	○	○	○	○
A plain language summary for each chemical would be a beneficial addition to the HSDB.	○	○	○	○	○	○
The HSDB is accessible to consumers and community groups, that is, I believe it would be easily accessed and used by these groups.	○	○	○	○	○	○
The HSDB would be a more valuable resource if it employed a toxicological ontology, such as OpenTox.	○	○	○	○	○	○

*16. Please choose the top 5 possible improvements to HSDB that you would like to see implemented. 1= most important improvement and 5=least important improvement (please only choose five and number 1-5 accordingly, for all others please select "Not in top 5").

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*16. Please choose the top 5 possible improvements to HSDB that you would like to see implemented. 1= most important improvement and 5=least important improvement (please only choose five and number 1-5 accordingly, for all others please select "Not in top 5").

	1=Most important improvement	2	3	4	5 =Least important improvement	Not in top 5
Mobile application	○	○	○	○	○	○
Hyperlink to full-text articles	○	○	○	○	○	○
Additional subcategories (ex. Human Toxicity>Acute v. Chronic>high dose v. low dose)	○	○	○	○	○	○
Ability to save/bookmark/return to a query	○	○	○	○	○	○
Advanced search functions	○	○	○	○	○	○
Enhanced global perspective (integration of international data and regulations)	○	○	○	○	○	○
Enhanced user support tools such as online tutorials	○	○	○	○	○	○
Expanded content on systems biology	○	○	○	○	○	○
Links to monographs	○	○	○	○	○	○
Structural browser or groupings to facilitate "read across"	○	○	○	○	○	○
Additional information on the process of data extraction and the peer review process for the HSDB content	○	○	○	○	○	○
Email notifications of updates to the database and other pertinent information	○	○	○	○	○	○
Ability to download data into my own databases	○	○	○	○	○	○
A more customized user experience, such as the ability to create custom reports of the data or enhanced flexibility in the way the information is presented	○	○	○	○	○	○

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	○	○	○	○	○	○
Integration of data from other electronic resources, such as current publications from PubMed	○	○	○	○	○	○
Revised peer review process to speed up review times and improve currentness of information (currently 4-6 months to review 1 chemical)	○	○	○	○	○	○
A completely revised interface that provided access to current peer-reviewed information but also integrated and linked data, such as current publications	○	○	○	○	○	○
Alphabetized site map	○	○	○	○	○	○
Hover effects (ex. hover over a link and see an excerpt from the destination, definitions, and explanations of acronyms)	○	○	○	○	○	○
Advanced multi-category search feature (ex. Pyrene + liver + cancer)	○	○	○	○	○	○
Reverse search feature (ex. pyrene - cancer or cancer - pyrene)	○	○	○	○	○	○
Subject links to free content sources (NTP, EPA)	○	○	○	○	○	○
Subject links to paid content sources (Elsevier, PubMed)	○	○	○	○	○	○
Subject links to other NLM resources (Medline, Toxnet, etc.)	○	○	○	○	○	○
Subject links to original cited sources (ex. abstract and/or full text)	○	○	○	○	○	○

Other:

[   ]

*17. What categories of content (data fields) are not included in the HSDB that should be? (please check all that apply)

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*17. What categories of content (data fields) are not included in the HSDB that should be? (please check all that apply)

☐ Metabolomics

☐ Proteomics

☐ Lipidomics

☐ Genomics

☐ Transcriptomics

☐ Genetic and Molecular Toxicology

☐ Cellular and Molecular Mechanisms of Toxicity

☐ None of the fields are necessary

☐ Cannot comment

Other

[   ]

*18. If the HSDB were to undergo a redesign, which Human Health Effects data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Toxicity Summary	○	○	○	○
Evidence for Carcinogenicity	○	○	○	○
Human Toxicity Excerpts	○	○	○	○
Skin, Eye and Respiratory Irritations	○	○	○	○
Drug Warnings	○	○	○	○
Medical Surveillance	○	○	○	○
Populations at Special Risk	○	○	○	○
Probable Routes of Human Exposure	○	○	○	○
Body Burden	○	○	○	○
Average Daily Intake	○	○	○	○
Reported Fatal Dose	○	○	○	○

*19. If the HSDB were to undergo a redesign, which Emergency Medical Treatment data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Emergency Medical Treatment	○	○	○	○
Antidote and Emergency Treatment	○	○	○	○

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*20. If the HSDB were to undergo a redesign, which Animal Toxicity Studies data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Toxicity Summary	○	○	○	○
Evidence for Carcinogenicity	○	○	○	○
Non-Human Toxicity Excerpts	○	○	○	○
National Toxicology Program Studies	○	○	○	○
Non-Human Toxicity Values	○	○	○	○
Ecotoxicity Values	○	○	○	○
Ongoing Test Status	○	○	○	○
TSCA Test Submissions	○	○	○	○

*21. If the HSDB were to undergo a redesign, which Metabolism/Pharmacokinetics data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Metabolism/Metabolites	○	○	○	○
Absorption, Distribution & Excretion	○	○	○	○
Biological Half-Life	○	○	○	○
Mechanism of Action	○	○	○	○
Interactions	○	○	○	○

*22. If the HSDB were to undergo a redesign, which Pharmacology data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Therapeutic Uses	○	○	○	○
Drug Warnings	○	○	○	○
Interactions	○	○	○	○
Reported Fatal Dose	○	○	○	○

*23. If the HSDB were to undergo a redesign, which Environmental Fate & Exposure data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment

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*23. If the HSDB were to undergo a redesign, which <u>Environmental Fate & Exposure</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Environmental Fate/Exposure Summary	○	○	○	○
Probable Routes of Human Exposure	○	○	○	○
Body Burden	○	○	○	○
Average Daily Intake	○	○	○	○
Natural Pollution Sources	○	○	○	○
Artificial Pollution Sources	○	○	○	○
Environmental Fate	○	○	○	○
Environmental Biodegradation	○	○	○	○
Environmental Abiotic Degradation	○	○	○	○
Environmental Bioconcentration	○	○	○	○
Soil Adsorption/Mobility	○	○	○	○
Volatilization from Water/Soil	○	○	○	○
Environmental Water Concentrations	○	○	○	○
Effluent Concentrations	○	○	○	○
Sediment/Soil Concentrations	○	○	○	○
Atmospheric Concentrations	○	○	○	○
Food Survey Values	○	○	○	○
Plant Concentrations	○	○	○	○
Fish/Seafood Concentrations	○	○	○	○
Milk Concentrations	○	○	○	○
Other Environmental Concentrations	○	○	○	○

*24. If the HSDB were to undergo a redesign, which <u>Environmental Standards & Regulations</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
FIFRA Requirements	○	○	○	○
Acceptable Daily Intakes	○	○	○	○

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	Must Keep	Eliminate	Neutral	Cannot comment
Environmental Water Concentrations	○	○	○	○
Effluent Concentrations	○	○	○	○
Sediment/Soil Concentrations	○	○	○	○
Atmospheric Concentrations	○	○	○	○
Food Survey Values	○	○	○	○
Plant Concentrations	○	○	○	○
Fish/Seafood Concentrations	○	○	○	○
Milk Concentrations	○	○	○	○
Other Environmental Concentrations	○	○	○	○

*24. If the HSDB were to undergo a redesign, which <u>Environmental Standards & Regulations</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
FIFRA Requirements	○	○	○	○
Acceptable Daily Intakes	○	○	○	○
CERCLA Reportable Quantities	○	○	○	○
RCRA Requirements	○	○	○	○
Atmospheric Standards	○	○	○	○
Clean Water Act Requirements	○	○	○	○
Federal Drinking Water Standards	○	○	○	○
State Drinking Water Standards	○	○	○	○
State Drinking Water Guidelines	○	○	○	○
FDA Requirements	○	○	○	○
Allowable Tolerances	○	○	○	○

*25. If the HSDB were to undergo a redesign, which <u>Chemical/Physical Propertiest</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Molecular Formula	○	○	○	○
Molecular Weight	○	○	○	○
Color/Form	○	○	○	○

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FDA Requirements

Allowable Tolerances

*25. If the HSDB were to undergo a redesign, which <u>Chemical/Physical Propertiest</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Molecular Formula	○	○	○	○
Molecular Weight	○	○	○	○
Color/Form	○	○	○	○
Odor	○	○	○	○
Taste	○	○	○	○
Boiling Point	○	○	○	○
Melting Point	○	○	○	○
Critical Temperature & Pressure	○	○	○	○
Density/Specific Gravity	○	○	○	○
Heat of Combustion	○	○	○	○
Heat of Vaporization	○	○	○	○
Octanol/Water Partition Coefficient	○	○	○	○
Solubilities	○	○	○	○
Spectral Properties	○	○	○	○
Surface Tension	○	○	○	○
Vapor Density	○	○	○	○
Vapor Pressure	○	○	○	○
Relative Evaporation Rate	○	○	○	○
Viscosity	○	○	○	○
Other Chemical/Physical Properties	○	○	○	○

*26. If the HSDB were to undergo a redesign, which <u>Chemical Safety & Handling</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
DOT Emergency Guidelines	○	○	○	

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*26. If the HSDB were to undergo a redesign, which Chemical Safety & Handling data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
DOT Emergency Guidelines	○	○	○	○
Odor Threshold	○	○	○	○
Skin, Eye and Respiratory Irritations	○	○	○	○
Fire Potential	○	○	○	○
NFPA Hazard Classification	○	○	○	○
Flammable Limits	○	○	○	○
Flash Point	○	○	○	○
Autoignition Temperature	○	○	○	○
Fire Fighting Procedures	○	○	○	○
Firefighting Hazards	○	○	○	○
Explosive Limits & Potential	○	○	○	○
Hazardous Reactivities & Incompatibilities	○	○	○	○
Prior History of Accidents	○	○	○	○
Immediately Dangerous to Life or Health	○	○	○	○
Protective Equipment & Clothing	○	○	○	○
Preventive Measures	○	○	○	○
Shipment Methods and Regulations	○	○	○	○
Storage Conditions	○	○	○	○
Cleanup Methods	○	○	○	○
Disposal Methods	○	○	○	○

*27. If the HSDB were to undergo a redesign, which Occupational Exposure Standards data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
OSHA Standards	○	○	○	○
Threshold Limit Values	○	○	○	○

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*27. If the HSDB were to undergo a redesign, which Occupational Exposure Standards data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
OSHA Standards	○	○	○	○
Threshold Limit Values	○	○	○	○
NIOSH Recommendations	○	○	○	○
Immediately Dangerous to Life or Health	○	○	○	○
Other Standards Regulations and Guidelines	○	○	○	○

*28. If the HSDB were to undergo a redesign, which Manufacturing/Use Information data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Major Uses	○	○	○	○
Manufacturers	○	○	○	○
Methods of Manufacturing	○	○	○	○
General Manufacturing Information	○	○	○	○
Formulations/Preparations	○	○	○	○
Impurities	○	○	○	○
Consumption Patterns	○	○	○	○
U. S. Production	○	○	○	○
U. S. Imports	○	○	○	○
U. S. Exports	○	○	○	○

*29. If the HSDB were to undergo a redesign, which Laboratory Methods data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Clinical Laboratory Methods	○	○	○	○
Analytic Laboratory Methods	○	○	○	○
Sampling Procedures	○	○	○	○

*30. If the HSDB were to undergo a redesign, which Special References data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment

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Clinical Laboratory Methods	○	○	○	○
Analytic Laboratory Methods	○	○	○	○
Sampling Procedures	○	○	○	○

*30. If the HSDB were to undergo a redesign, which <u>Special References</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Special Reports	○	○	○	○

*31. If the HSDB were to undergo a redesign, which <u>Synonyms and Identifiers</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Related HSDB Records	○	○	○	○
Synonyms	○	○	○	○
Formulations/Preparations	○	○	○	○
Shipping Name/ Number DOT/UN/NA/IMO	○	○	○	○
Standard Transportation Number	○	○	○	○
EPA Hazardous Waste Number	○	○	○	○

*32. If the HSDB were to undergo a redesign, which <u>Administrative Information</u> data fields do you believe must remain or be eliminated?

	Must Keep	Eliminate	Neutral	Cannot comment
Hazardous Substances Databank Number	○	○	○	○
Last Revision Date	○	○	○	○
Last Review Date	○	○	○	○
Update History	○	○	○	○

*33. How do you query the database? (please describe)

[text box]

*34. Are there queries you cannot execute that you would like to?

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*34. Are there queries you cannot execute that you would like to?

○ Yes

○ No

If yes, please describe.

*35. Specifically, how do you most frequently access the HSDB?

○ Office computer

○ Home computer

○ Smart phone (examples: iPhone, Droid)

○ Tablet or netbook (examples: IPad, Samsung Tablet)

Other:

*36. How does HSDB Rank on Credibility / Confidence? (5=Excellent and 1=Poor, 9=Can't comment) Please number 1-5 accordingly

	5 Excellent	4 Good	3 Average	2 Somewhat poor	1 Poor	9 Can't comment
Transparency of data compilation	○	○	○	○	○	○
Peer review process	○	○	○	○	○	○
Content credibility	○	○	○	○	○	○
Age of content/currentness	○	○	○	○	○	○
Reliability of original sources used	○	○	○	○	○	○
NIH/NLM credibility	○	○	○	○	○	○

*37. How does HSDB Rank on User Interface? (5=Excellent and 1=Poor, 9=Can't comment) Please number 1-5 accordingly

	5 Excellent	4 Good	3 Average	2 Somewhat poor	1 poor	9 Can't comment

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Reliability of original sources used	○	○	○	○	○	○
NIH/NLM credibility	○	○	○	○	○	○

*37. How does HSDB Rank on User Interface? (5=Excellent and 1=Poor, 9=Can't comment) Please number 1-5 accordingly

	5 Excellent	4 Good	3 Average	2 Somewhat poor	1 poor	9 Can't comment
Appearance of site	○	○	○	○	○	○
Ease of use and navigation	○	○	○	○	○	○
Consistency in color and font size	○	○	○	○	○	○
Well explained definitions, acronyms and synonyms	○	○	○	○	○	○
Back buttons and/or other navigation tools	○	○	○	○	○	○
Training/tutorials (interactive, video, etc.)	○	○	○	○	○	○
Use on mobile devices (smartphone, tablet, etc.)	○	○	○	○	○	○

*38. How does HSDB Rank on Utility / Comprehensiveness? (5=Excellent and 1=Poor, 9=Can't comment) Please number 1-5 accordingly

	5 Excellent	4 Good	3 Average	2 Somewhat poor	1 poor	9 Can't comment
Global-related content (i.e. applicable to REACH, etc.)	○	○	○	○	○	○
Includes information on current, emerging issues	○	○	○	○	○	○
Identification of updates in records and gaps in HSDB content (such as ranking of completeness)	○	○	○	○	○	○
Ability to save or extract content in formats that you find useful in your everyday tasks	○	○	○	○	○	○
Citable monographs, summaries, etc.	○	○	○	○	○	○

*39. What is your overall level of satisfaction with the HSDB?

○ 1 Very dissatisfied

HSDB content (such as ranking of completeness)	○	○	○	○	○	○
Ability to save or extract content in formats that you find useful in your everyday tasks	○	○	○	○	○	○
Citable monographs, summaries, etc.	○	○	○	○	○	○

*39. What is your overall level of satisfaction with the HSDB?

○ 1 Very dissatisfied

○ 2

○ 3 Neutral

○ 4

○ 5 Very satisfied

*40. Please rate your level of agreement with this statement: "The HSDB needs a major overhaul to remain a comprehensive, state-of-the-science expert resource."

○ 1 Disagree completely

○ 2

○ 3 Neutral

○ 4

○ 5 Agree completely

*41. Please provide any other comments or suggestions:

○ I have nothing further to add

My comments/suggestions:

[   ]

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