Exposure Assessment Worksheet

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# Missing DTXSID from Input: 2

|  |  |  |
| --- | --- | --- |
| DTXSID | CAS # | Chemical Name |
| DTXSID8029733 | 15356-60-2 | (1S,2R,5S)-(+)-Menthol |
| DTXSID80891918 | 31212-13-2 | 2-Propenoic acid, potassium salt, polymer with 2-propenamide |

# No PUC Assigned for DTXSID from Input: 2

|  |  |  |
| --- | --- | --- |
| DTXSID | CAS # | Chemical Name |
| DTXSID7021318 | 79-34-5 | 1,1,2,2-Tetrachloroethane |
| DTXSID1026164 | 95-53-4 | 2-Aminotoluene |

# Exposure Summary for DTXSID7021318

## 1. Chemical Use

|  |  |
| --- | --- |
| Chemical Synonyms | Place Holder |
| Chemical Uses | NA |
| Reported functional uses | NA |
| List of CPCat terms (general uses) | NA |
| Production Data | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 2. Chemical Data

|  |  |
| --- | --- |
| Koc (log) | Place Holder |
| Biodegradation half-life | Place Holder |
| Soil/Water/Sed. half-life | Place Holder |
| Solubility in Water | Place Holder |
| Henry’s Law const. | Place Holder |
| WWTP removal | Place Holder |
| Molecular Weight | Place Holder |
| Vapor Pressure | NaN |
| Kow | Place Holder |
| BCF | Place Holder |
| Breakdown Products | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 3. Chemical Emissions and Disposal

|  |  |
| --- | --- |
| Wastewater Concentration | Place Holder |
| Down-the-Drain Disposal | Place Holder |
| Landfill Disposal | Place Holder |
| Pesticide/fertilizer Releases to Land | Place Holder |
| Pesticide/fertilizer Releases to Water | Place Holder |
| Industrial Releases to Water | Place Holder |

## 4. Chemical Occurrence in Environment, Drinking Water, and Food

|  |  |
| --- | --- |
| Detected in Drinking Water in Minnesota | Place Holder |
| Detected in Drinking Water Outside Minnesota | Place Holder |
| Pretreatment Source Water (Groundwater or Surface) in Minnesota | Place Holder |
| Pretreatment Source Water (Groundwater or Surface) Outside Minnesota | Place Holder |
| Non-Source Surface Water in Minnesota | Place Holder |
| Non-Source Surface Water Outside Minnesota | Place Holder |
| Non-Source Ground Water in Minnesota | Place Holder |
| Non-Source Ground Water Outside Minnesota | Place Holder |
| USGS Tier (Water) | Place Holder |
| USGS Tier (Sediment) | Place Holder |
| Minnesota Groundwater | Place Holder |
| Air and Dust | No |
| Food | Place Holder |
| Soil/Sediment | Yes, (182) |
| Sludge/Biosolids | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | Place Holder |

## 5. Human Exposure

|  |  |
| --- | --- |
| Presence in Consumer Products | Place Holder |
| Individual direct exposure potential - Consumer Products | Place Holder |
| Present in food or drinking water | Place Holder |
| Individual exposure potential - Food/Drinking Water | Place Holder |
| General population (non-occupational) exposure measurements | Place Holder |
| Tested in the human body? (blood, urine, etc.) | Place Holder |
| Has Dermal exposure been measured or estimated? | Place Holder |
| Has Inhalation exposure been measured or estimated? | Place Holder |
| Has Drinking Water exposure been measured or estimated? | Place Holder |
| Has Food exposure been measured or estimated? | Place Holder |
| Has Incidental Ingestion been measured or estimated? | Place Holder |
| Have average daily doses been estimated? | Place Holder |
| Relative Source Contribution | (This section is completed during full review, not during screening.) |
| Are there any populations (children, elderly, etc.) who are a special concern for this chemical? | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 6. Review History and Contacts

|  |  |
| --- | --- |
| Screening Reviewer, Date | Place Holder |
| Primary Reviewer, Date | Place Holder |
| Secondary Reviewer, Date | Place Holder |
| MDH staff with an interest in this chemical | (for example: staff from infectious disease, staff who deal with pesticide application issues, staff who may be involved with public messages about this chemical. Not necessarily people we are asking for information) |
| MDH and other state agency staff with information on this chemical | (list individuals who may have information to contribute) |
| Other state agencies to be contacted | (list state agencies that may need to be kept informed of this review. For example, MPCA, MDA) |
| Potential MDH actions for this chemical | For example: recommend addition to CCL4 list; send comments to EPA; advise MPCA on potential exposure; recommend sampling by MDH; offer advice to public on how to reduce impacts or personal exposure; etc.) |
| Record of contacts | (keep a list of correspondence, items that need follow-up, questions asked, etc.) |

# Exposure Summary for DTXSID1026164

## 1. Chemical Use

|  |  |
| --- | --- |
| Chemical Synonyms | Place Holder |
| Chemical Uses | NA |
| Reported functional uses | NA |
| List of CPCat terms (general uses) | NA |
| Production Data | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 2. Chemical Data

|  |  |
| --- | --- |
| Koc (log) | Place Holder |
| Biodegradation half-life | Place Holder |
| Soil/Water/Sed. half-life | Place Holder |
| Solubility in Water | Place Holder |
| Henry’s Law const. | Place Holder |
| WWTP removal | Place Holder |
| Molecular Weight | Place Holder |
| Vapor Pressure | NaN |
| Kow | Place Holder |
| BCF | Place Holder |
| Breakdown Products | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 3. Chemical Emissions and Disposal

|  |  |
| --- | --- |
| Wastewater Concentration | Place Holder |
| Down-the-Drain Disposal | Place Holder |
| Landfill Disposal | Place Holder |
| Pesticide/fertilizer Releases to Land | Place Holder |
| Pesticide/fertilizer Releases to Water | Place Holder |
| Industrial Releases to Water | Place Holder |

## 4. Chemical Occurrence in Environment, Drinking Water, and Food

|  |  |
| --- | --- |
| Detected in Drinking Water in Minnesota | Place Holder |
| Detected in Drinking Water Outside Minnesota | Place Holder |
| Pretreatment Source Water (Groundwater or Surface) in Minnesota | Place Holder |
| Pretreatment Source Water (Groundwater or Surface) Outside Minnesota | Place Holder |
| Non-Source Surface Water in Minnesota | Place Holder |
| Non-Source Surface Water Outside Minnesota | Place Holder |
| Non-Source Ground Water in Minnesota | Place Holder |
| Non-Source Ground Water Outside Minnesota | Place Holder |
| USGS Tier (Water) | Place Holder |
| USGS Tier (Sediment) | Place Holder |
| Minnesota Groundwater | Place Holder |
| Air and Dust | No |
| Food | Place Holder |
| Soil/Sediment | No |
| Sludge/Biosolids | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Potential Issues/Concerns or Unresolved Questions | Place Holder |
| Secondary Reviewer questions/observations | Place Holder |

## 5. Human Exposure

|  |  |
| --- | --- |
| Presence in Consumer Products | Place Holder |
| Individual direct exposure potential - Consumer Products | Place Holder |
| Present in food or drinking water | Place Holder |
| Individual exposure potential - Food/Drinking Water | Place Holder |
| General population (non-occupational) exposure measurements | Place Holder |
| Tested in the human body? (blood, urine, etc.) | Place Holder |
| Has Dermal exposure been measured or estimated? | Place Holder |
| Has Inhalation exposure been measured or estimated? | Place Holder |
| Has Drinking Water exposure been measured or estimated? | Place Holder |
| Has Food exposure been measured or estimated? | Place Holder |
| Has Incidental Ingestion been measured or estimated? | Place Holder |
| Have average daily doses been estimated? | Place Holder |
| Relative Source Contribution | (This section is completed during full review, not during screening.) |
| Are there any populations (children, elderly, etc.) who are a special concern for this chemical? | Place Holder |
| Key messages for Information Sheet | Place Holder |
| Secondary Reviewer questions/observations | (note any disagreements/additions/corrections) |

## 6. Review History and Contacts

|  |  |
| --- | --- |
| Screening Reviewer, Date | Place Holder |
| Primary Reviewer, Date | Place Holder |
| Secondary Reviewer, Date | Place Holder |
| MDH staff with an interest in this chemical | (for example: staff from infectious disease, staff who deal with pesticide application issues, staff who may be involved with public messages about this chemical. Not necessarily people we are asking for information) |
| MDH and other state agency staff with information on this chemical | (list individuals who may have information to contribute) |
| Other state agencies to be contacted | (list state agencies that may need to be kept informed of this review. For example, MPCA, MDA) |
| Potential MDH actions for this chemical | For example: recommend addition to CCL4 list; send comments to EPA; advise MPCA on potential exposure; recommend sampling by MDH; offer advice to public on how to reduce impacts or personal exposure; etc.) |
| Record of contacts | (keep a list of correspondence, items that need follow-up, questions asked, etc.) |

# References

# Supplemental Tables

## Chemical Data

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| product\_name | general\_category | product\_type | DTXSID | minimum\_weight\_fraction | maximum\_weight\_fraction |
| NA | NA | NA | DTXSID7021318 | NA | NA |

## Data Sources by CPCat Term

TABLE TBD!

## Detection by Source

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| DTXSID | name | harmonized\_medium | reported\_species | nProducts | detected |
| DTXSID7021318 | ip\_chem\_rivers | surface water | NA | 0 | 558 |
| DTXSID7021318 | oecd | human blood (whole/serum/plasma) | NA | 0 | 0 |
| DTXSID7021318 | usgs\_groundwater | groundwater | NA | 0 | 121 |
| DTXSID7021318 | usgs\_groundwater | surface water | NA | 0 | 20 |
| DTXSID7021318 | usgs\_sediment | sediment | NA | 0 | 182 |
| DTXSID7021318 | usgs\_surfacewater | groundwater | NA | 0 | 24 |
| DTXSID7021318 | usgs\_surfacewater | surface water | NA | 0 | 70 |