Eco-Mite Plus®

| Section 1. Identification |  |
| :---: | :---: |
| GHS product identifier | Eco-Mite Plus® |
| Product use | Botanical Insecticide |
| Supplier's details | : Arborjet 99 Blueberry Hill Road Woburn, MA 01801, USA 1-781-935-9070 |
| e-mail address of person responsible for this SDS | : ajinformation@arborjet.com |
| Emergency telephone number (with hours of operation) | : 1-800-255-3924 (CHEM-TEL) |

## Section 2. Hazards identification

Classification of the substance or mixture
: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
: FLAMMABLE LIQUIDS - Category 4
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 91.2\%

## GHS label elements

| Signal word | $:$ Warning |
| :--- | :--- |
| Hazard statements | $:$ Combustible liquid. |

## Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces. - No smoking.
Response : Not applicable.
Storage : Store in a well-ventilated place.
Keep cool.
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise
: None known. classified

## Section 3. Composition/information on ingredients

| Substance/mixture | : Mixture |
| :--- | :--- |
| Other means of | $:$ Not available. |

identification

## CAS number/other identifiers

CAS number : Not applicable.
Product code : 1 Quart 040-7005 1 Gallon 040-7020

## Section 3. Composition/information on ingredients

| Ingredient name | $\%$ | CAS number |
| :--- | :--- | :--- |
| Rosemary | 100 | - |
| Oils, rosemary | $\geq 1-<3$ | $8000-25-7$ |
| Oils, peppermint | $\geq 1-<3$ | $8006-90-4$ |
| Cottonseed oil | $\geq 3-<5$ | $8001-29-4$ |
| Isopropyl alcohol | 100 | $67-63-0$ |
| Soap | $\geq 50-<75$ | - |
| water |  | $7732-18-5$ |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## Description of necessary first aid measures

Eye contact

Inhalation

Skin contact

Ingestion
: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed Potential acute health effects

| Eye contact | : No known significant effects or critical hazards. |
| :--- | :--- |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | : No known significant effects or critical hazards. |


| Eye contact | $:$ No specific data. |
| :--- | :--- |
| Inhalation | $:$ No specific data. |
| Skin contact | $:$ No specific data. |
| Ingestion | $:$ No specific data. |

## Section 4. First aid measures

## Indication of immediate medical attention and special treatment needed, if necessary

| Notes to physician | $:$Treat symptomatically. Contact poison treatment specialist immediately if large <br> quantities have been ingested or inhaled. |
| :--- | :--- |
| Specific treatments | $:$ No specific treatment. |
| Protection of first-aiders | $:$No action shall be taken involving any personal risk or without suitable training. It may <br> be dangerous to the person providing aid to give mouth-to-mouth resuscitation. |

## See toxicological information (Section 11)

## Section 5. Fire-fighting measures

## Extinquishing media

| Suitable extinguishing |
| :--- | :--- |
| media |$\quad:$ Use dry chemical, $\mathrm{CO}_{2}$, water spray (fog) or foam.

Specific hazards arising from the chemical

Hazardous thermal decomposition products
: Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide

| Special protective actions <br> for fire-fighters | :Promptly isolate the scene by removing all persons from the vicinity of the incident if <br> there is a fire. No action shall be taken involving any personal risk or without suitable <br> training. Move containers from fire area if this can be done without risk. Use water <br> spray to keep fire-exposed containers cool. |
| :--- | :--- |
| Special protective <br> equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing <br> apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and <br> explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, <br> or if water-insoluble, absorb with an inert dry material and place in an appropriate waste <br> disposal container. Dispose of via a licensed waste disposal contractor. |
| :--- | :--- |

## Section 6. Accidental release measures

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

## Precautions for safe handling

## Protective measures

Advice on general
occupational hygiene
: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. including any
incompatibilities

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

## Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
| :--- | :--- |
| Isopropyl alcohol | ACGIH TLV (United States, 4/2014). |
|  | TWA: 200 ppm 8 hours. |
|  | STEL: 400 ppm 15 minutes. |
|  | OSHA PEL 1989 (United States, 3/1989). |
|  | TWA: 400 ppm 8 hours. |
|  | TWA: $980 \mathrm{mg} / \mathrm{m}^{3} 8$ hours. |
|  | STEL: 500 ppm 15 minutes. |
|  | STEL: $1225 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. |
|  | NIOSH REL (United States, 10/2013). |
|  | TWA: 400 ppm 10 hours. |
|  | TWA: $980 \mathrm{mg} / \mathrm{m}^{3} 10$ hours. |
|  | STEL: 500 ppm 15 minutes. |
|  | STEL: $1225 \mathrm{mg} / \mathrm{m}^{3} 15$ minutes. |
|  | OSHA PEL (United States, 2/2013). |
|  | TWA: 400 ppm 8 hours. |
|  | TWA: $980 \mathrm{mg} / \mathrm{m}^{3} 8$ hours.. |

## Section 8. Exposure controls/personal protection

Appropriate engineering controls

Environmental exposure
controls
: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

| Hygiene measures | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| :---: | :---: |
| Eye/face protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. |
| Skin protection |  |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended glove material: nitrile |
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |

## Section 9. Physical and chemical properties

## Appearance

| Physical state | : Liquid. |
| :--- | :--- |
| Color | : Amber. |
| Odor | : Herbal mint |
| Odor threshold | : Not available. |
| pH | : 9.83 @ $25^{\circ} \mathrm{C}$ |
| Melting point | : Not available. |
| Boiling point | : Not available. |
| Flash point | : Not available. |
| Evaporation rate $\left(143.6^{\circ} \mathrm{F}\right)$ [Cleveland.] |  |
| Flammability (solid, gas) <br> Lower and upper explosive | $:$ Not available. |
| (flammable) limits available. |  |
| Vapor pressure | $:$ Not available. |

## Section 9. Physical and chemical properties

| Vapor density | $:$ Not available. |
| :--- | :--- |
| Relative density | : Not available. |
| Solubility | : Miscible in water. |
| Partition coefficient: n- Not available. <br> octanol/water  <br> Auto-ignition temperature : Not available. <br> Decomposition temperature : Not available. <br> Viscosity : Not available. l |  |

## Section 10. Stability and reactivity

## Reactivity

## Chemical stability : The product is stable.

Possibility of hazardous reactions

Hazardous decomposition products oxidizing materials
: No specific test data related to reactivity available for this product or its ingredients.
: Under normal conditions of storage and use, hazardous reactions will not occur.
: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
: Reactive or incompatible with the following materials:

## Section 11. Toxicological information

## Information on toxicological effects

## Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
| :--- | :--- | :--- | :--- | :--- |
| Isopropyl alcohol | LD50 Dermal | Rabbit | $12800 \mathrm{mg} / \mathrm{kg}$ | - |
| Oils, rosemary | LD50 Oral | Rat | $5000 \mathrm{mg} / \mathrm{kg}$ | - |
|  | LD50 Dermal | Rabbit | $>10 \mathrm{~g} / \mathrm{kg}$ | - |
|  | LD50 Oral | Rat | $5 \mathrm{~g} / \mathrm{kg}$ | - |

## Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Isopropyl alcohol | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 <br> milligrams <br> 10 milligrams | - |
|  | Eyes - Moderate irritant | Rabbit | - | 100 <br> Rabbit <br> Eilligrams | - |
| Oils, rosemary - Severe irritant | Skin - Mild irritant | Rabbit | - | 500 <br> milligrams <br> 24 hours 500 <br> milligrams | - |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available

## Section 11. Toxicological information

Classification

| Product/ingredient name | OSHA | IARC | NTP |
| :--- | :--- | :--- | :--- |
| Isopropyl alcohol | - | 3 | - |

## Reproductive toxicity

Not available.

## Teratogenicity

Not available.
Specific target organ toxicity (single exposure)

| Name | Category | Route of <br> exposure | Target organs |
| :--- | :--- | :--- | :--- |
| Isopropyl alcohol | Category 3 | Not applicable. | Narcotic effects |

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

Information on the likely : Not available.
routes of exposure

## Potential acute health effects

| Eye contact | $:$ No known significant effects or critical hazards. |
| :--- | :--- |
| Inhalation | : No known significant effects or critical hazards. |
| Skin contact | : No known significant effects or critical hazards. |
| Ingestion | $:$ No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | $:$ No specific data. |
| :--- | :--- |
| Inhalation | : No specific data. |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure

| Short term exposure |
| :--- |
| Potential immediate <br> effects |
| Potential delayed effects <br> Long term exposure |
| Potential immediate <br> effects |
| Potential delayed effects $\quad:$ Not available. <br> Potential chronic health effects <br> Not available. |$.$| Not available. |
| :--- |


| General | : No known significant effects or critical hazards. |
| :--- | :--- |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

## Section 11. Toxicological information

## Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
| :--- | :--- |
| Oral | $3842 \mathrm{mg} / \mathrm{kg}$ |

## Section 12. Ecological information

## Toxicity

\(\left.$$
\begin{array}{|l|l|l|l|}\hline \text { Product/ingredient name } & \text { Result } & \text { Species } & \text { Exposure } \\
\hline \text { Isopropyl alcohol } & \text { Acute LC50 } 1400000 \mu \mathrm{~g} / \mathrm{I} \text { Marine water } \\
\text { Acute LC50 } 4200 \mathrm{mg} / \mathrm{I} \text { Fresh water }\end{array}
$$ \begin{array}{l}Crustaceans - Crangon crangon <br>

Fish - Rasbora heteromorpha\end{array}\right]\)| 48 hours |
| :--- |
| 96 hours |

## Persistence and degradability

Not available.

## Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
| :--- | :--- | :--- | :--- |
| Isopropyl alcohol | 0.05 | - | low |

## Mobility in soil

Soil/water partition : Not available.
coefficient (Koc)

Other adverse effects
: No known significant effects or critical hazards.

## Section 13. Disposal considerations

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

## Section 14. Transport information

|  | DOT <br> Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| UN number | UN1993 | UN1993 | UN1993 | UN1993 | UN1993 | UN1993 |
| UN proper shipping name | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) | FLAMMABLE LIQUID, N.O.S. (Isopropyl alcohol) |
| Transport hazard class(es) | 3 | 3 | 3 | 3 | 3 | 3 |
| Transport Label |  |  |  |  |  |  |
| Packing group | III | III | III | III | III | III |
| Environmental hazards | No. | No. | No. | No. | Marine Pollutant: No | No. |
| Additional information | This product may be reclassified as "Combustible Liquid," unless transported by vessel or aircraft. Nonbulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials. | - | - | $\begin{array}{\|l} \frac{\text { Special }}{\text { provisions }} \\ \hline 640(E) \\ \text { Tunnel code } \\ \hline(D / E) \end{array}$ | - | - |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.
to Annex II of MARPOL
73/78 and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations
: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 : Not listed
(b) Hazardous Air

Pollutants (HAPs)
Clean Air Act Section 602 : Not listed
Class I Substances
Clean Air Act Section 602 : Not listed
Class II Substances

## Section 15. Regulatory information

| DEA List I Chemicals <br> (Precursor Chemicals) | : Not listed |
| :--- | :--- |
| DEA List II Chemicals |  |$\quad:$ Not listed (Essential Chemicals)

SARA 302/304
Composition/information on ingredients
No products were found.
SARA 304 RQ : Not applicable.
SARA 311/312
Classification
: Fire hazard
Composition/information on ingredients

| Name | $\%$ | Fire <br> hazard | Sudden <br> release of <br> pressure | Reactive | Immediate <br> (acute) <br> health <br> hazard | Delayed <br> (chronic) <br> health <br> hazard |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Isopropyl alcohol <br> Oils, rosemary | haza <br> $\geq 1-<3$ | Yes. <br> No. | No. <br> No. | No. <br> No. | Yes. <br> Yes. | No. <br> No. |

SARA 313

|  | Product name | CAS number | $\%$ |
| :--- | :--- | :--- | :--- |
| Form R - Reporting <br> requirements | Isopropyl alcohol | $67-63-0$ | $\geq 3-<5$ |
| Supplier notification | Isopropyl alcohol | $67-63-0$ | $\geq 3-<5$ |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

## State regulations

Massachusetts : The following components are listed: ISOPROPYL ALCOHOL
New York : None of the components are listed.
New Jersey : The following components are listed: ISOPROPYL ALCOHOL; 2-PROPANOL
Pennsylvania : The following components are listed: 2-PROPANOL; COTTONSEED OIL

## International regulations

Chemical Weapon Convention List Schedules I. II \& III Chemicals
Not listed.
Montreal Protocol (Annexes A, B, C, E)
Not listed.

## Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

## UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## International lists

National inventory

| Australia | $:$ Not determined. |
| :--- | :--- |
| Canada | : Not determined. |
| China | : Not determined. |
| Europe | : Not determined. |

## Section 15. Regulatory information

| Japan | $:$ Not determined. |
| :--- | :--- |
| Malaysia | : Not determined. |
| New Zealand | $:$ Not determined. |
| Philippines | : Not determined. |
| Republic of Korea | $:$ Not determined. |
| Taiwan | $:$ Not determined. |

## Section 16. Other information

## National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification


