

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 03/01/2021

Version Number 1

Reviewed on 03/01/2021

### 1 Identification

- **Product identifier**
- **Trade name:** Oregon Cannabis Pesticide Mix 1 (1mL)
- **Part number:** PST-CBS-OR1
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies, Inc.  
5301 Stevens Creek Blvd.  
Santa Clara, CA 95051 USA
- **Information department:**  
Telephone: 800-227-9770  
e-mail: pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
acetonitrile
- **Hazard statements**  
H225 Highly flammable liquid and vapor.  
H302 Harmful if swallowed.  
H319 Causes serious eye irritation.
- **Precautionary statements**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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- P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.  
P330 Rinse mouth.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

## 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

|         |              |         |
|---------|--------------|---------|
| 75-05-8 | acetonitrile | 99.746% |
|---------|--------------|---------|

## 4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Immediately rinse with water.

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- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

#### · PAC-1:

|           |                    |                         |
|-----------|--------------------|-------------------------|
| 75-05-8   | acetonitrile       | 13 ppm                  |
| 62-73-7   | dichlorvos (ISO)   | 1.8 mg/m <sup>3</sup>   |
| 63-25-2   | carbaryl (ISO)     | 1.5 mg/m <sup>3</sup>   |
| 116-06-3  | aldicarb (ISO)     | 0.027 mg/m <sup>3</sup> |
| 1563-66-2 | carbofuran (ISO)   | 0.3 mg/m <sup>3</sup>   |
| 2921-88-2 | chlorpyrifos (ISO) | 0.6 mg/m <sup>3</sup>   |

#### · PAC-2:

|           |                  |                        |
|-----------|------------------|------------------------|
| 75-05-8   | acetonitrile     | 50 ppm                 |
| 62-73-7   | dichlorvos (ISO) | 20 mg/m <sup>3</sup>   |
| 63-25-2   | carbaryl (ISO)   | 100 mg/m <sup>3</sup>  |
| 116-06-3  | aldicarb (ISO)   | 0.3 mg/m <sup>3</sup>  |
| 1563-66-2 | carbofuran (ISO) | 0.43 mg/m <sup>3</sup> |

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|                 |                    |                       |
|-----------------|--------------------|-----------------------|
| 2921-88-2       | chlorpyrifos (ISO) | 15 mg/m <sup>3</sup>  |
| <b>· PAC-3:</b> |                    |                       |
| 75-05-8         | acetonitrile       | 150 ppm               |
| 62-73-7         | dichlorvos (ISO)   | 200 mg/m <sup>3</sup> |
| 63-25-2         | carbaryl (ISO)     | 600 mg/m <sup>3</sup> |
| 116-06-3        | aldicarb (ISO)     | 1.8 mg/m <sup>3</sup> |
| 1563-66-2       | carbofuran (ISO)   | 3.7 mg/m <sup>3</sup> |
| 2921-88-2       | chlorpyrifos (ISO) | 44 mg/m <sup>3</sup>  |

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

**· Components with limit values that require monitoring at the workplace:**

### 75-05-8 acetonitrile

|      |                                                |
|------|------------------------------------------------|
| PEL  | Long-term value: 70 mg/m <sup>3</sup> , 40 ppm |
| REL  | Long-term value: 34 mg/m <sup>3</sup> , 20 ppm |
| TLV  | Long-term value: 34 mg/m <sup>3</sup> , 20 ppm |
| Skin |                                                |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

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**Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

**Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

**Material of gloves**

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

**Penetration time of glove material**

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

**Eye protection:**


Tightly sealed goggles

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**
**General Information**
**Appearance:**

**Form:** Fluid

**Color:** Colorless

**Odor:** Aromatic

**Odor threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**

**Melting point/Melting range:** -46 °C (-50.8 °F)

**Boiling point/Boiling range:** 81 °C (177.8 °F)

**Flash point:** 2 °C (35.6 °F)

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature:** 525 °C (977 °F)

**Decomposition temperature:** Not determined.

**Auto igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**Explosion limits:**

**Lower:** 4.4 Vol %

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|                                                   |                                            |
|---------------------------------------------------|--------------------------------------------|
| <b>Upper:</b>                                     | 16 Vol %                                   |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | 0 hPa                                      |
| · <b>Density at 20 °C (68 °F):</b>                | 0.786 g/cm <sup>3</sup> (6.55917 lbs/gal)  |
| · <b>Relative density</b>                         | Not determined.                            |
| · <b>Vapor density</b>                            | Not determined.                            |
| · <b>Evaporation rate</b>                         | Not determined.                            |
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                            |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| · <b>Viscosity:</b>                               |                                            |
| <b>Dynamic at 20 °C (68 °F):</b>                  | 0.39 mPas                                  |
| <b>Kinematic:</b>                                 | Not determined.                            |
| · <b>Solvent content:</b>                         |                                            |
| <b>Organic solvents:</b>                          | 0.0 %                                      |
| <b>VOC content:</b>                               | 0.03 %                                     |
|                                                   | 0.3 g/l / 0.00 lb/gal                      |
| · <b>Solids content:</b>                          | 0.2 %                                      |
| · <b>Other information</b>                        | No further relevant information available. |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**
**ATE (Acute Toxicity Estimate)**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 1,323 mg/kg (rat)     |
| Dermal     | LD50     | >2,005 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 3,596 mg/L (mouse)    |

**75-05-8 acetonitrile**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 1,320 mg/kg (rat)     |
| Dermal     | LD50     | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 3,587 mg/L (mouse)    |

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**62-73-7 dichlorvos (ISO)**

|            |          |                                       |
|------------|----------|---------------------------------------|
| Oral       | LD50     | 25 mg/kg (rat)                        |
| Dermal     | LD50     | 107 mg/kg (rat)<br>107 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 15 mg/L (rat)                         |

**2921-88-2 chlorpyrifos (ISO)**

|            |          |                                      |
|------------|----------|--------------------------------------|
| Oral       | LD50     | 60 mg/kg (mouse)<br>135 mg/kg (rat)  |
| Dermal     | LD50     | 120 mg/kg (mouse)<br>202 mg/kg (rat) |
| Inhalative | LC50/4 h | >200 mg/L (rat)                      |

**57960-19-7 acequinocyl (ISO)**

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | >5,000 mg/kg (rat) |
| Dermal     | LD50     | >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | >0.84 mg/L (rat)   |

**68359-37-5 cyfluthrin (ISO)**

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | 900 mg/kg (rat)    |
| Dermal     | LD50     | >5,000 mg/kg (rat) |
| Inhalative | LC50/4 h | 530 mg/L (rat)     |

**71751-41-2 abamectin (combination of avermectin B1a and avermectin B1b) (ISO)**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 1.5 mg/kg (rat)       |
| Dermal     | LD50     | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1,100 mg/L (rat)      |

**82657-04-3 Bifenthrin**

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 55 mg/kg (rat)        |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |

**122453-73-0 Chlorfenapyr**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 441 mg/kg (rat)       |
| Dermal     | LD50     | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1,900 mg/L (rat)      |

**· Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

**· Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

**· Carcinogenic categories**
**· IARC (International Agency for Research on Cancer)**

|         |                  |    |
|---------|------------------|----|
| 62-73-7 | dichlorvos (ISO) | 2B |
| 63-25-2 | carbaryl (ISO)   | 3  |

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|          |                |    |
|----------|----------------|----|
| 116-06-3 | aldicarb (ISO) | 3  |
| 333-41-5 | diazinon (ISO) | 2A |

**· NTP (National Toxicology Program)**

None of the ingredients is listed.

**· OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

**· Toxicity**
**· Aquatic toxicity:** No further relevant information available.

**· Persistence and degradability** No further relevant information available.

**· Behavior in environmental systems:**
**· Bioaccumulative potential** No further relevant information available.

**· Mobility in soil** No further relevant information available.

**· Additional ecological information:**
**· General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

**· Results of PBT and vPvB assessment**
**· PBT:** Not applicable.

**· vPvB:** Not applicable.

**· Other adverse effects** No further relevant information available.

## 13 Disposal considerations

**· Waste treatment methods**
**· Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**· Uncleaned packagings:**
**· Recommendation:** Disposal must be made according to official regulations.

**· Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

|                                        |              |
|----------------------------------------|--------------|
| · Not Regulated, De minimis Quantities | -            |
| · UN-Number                            |              |
| · DOT, IMDG, IATA                      | UN1648       |
| · UN proper shipping name              |              |
| · DOT                                  | Acetonitrile |
| · IMDG, IATA                           | ACETONITRILE |

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· **Transport hazard class(es)**

· **DOT**

· **Class**

3 Flammable liquids

· **Label**

3

· **IMDG, IATA**

· **Class**

3 Flammable liquids

· **Label**

3

· **Packing group**

· **DOT, IMDG, IATA**

II

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Warning: Flammable liquids

· **Hazard identification number (Kemler code):** 33

· **EMS Number:**

3-02

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **Hazardous substance:**

5000 lbs, 2270 kg

· **IMDG**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1648 ACETONITRILE, 3, II, ENVIRONMENTALLY HAZARDOUS

US

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### 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· **Section 355 (extremely hazardous substances):**

|           |                  |
|-----------|------------------|
| 62-73-7   | dichlorvos (ISO) |
| 116-06-3  | aldicarb (ISO)   |
| 1563-66-2 | carbofuran (ISO) |

· **Section 313 (Specific toxic chemical listings):**

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| 75-05-8    | acetonitrile                                                       |
| 62-73-7    | dichlorvos (ISO)                                                   |
| 63-25-2    | carbaryl (ISO)                                                     |
| 116-06-3   | aldicarb (ISO)                                                     |
| 333-41-5   | diazinon (ISO)                                                     |
| 1563-66-2  | carbofuran (ISO)                                                   |
| 30560-19-1 | acephate (ISO)                                                     |
| 68359-37-5 | cyfluthrin (ISO)                                                   |
| 71751-41-2 | abamectin (combination of avermectin B1a and avermectin B1b) (ISO) |
| 82657-04-3 | Bifenthrin                                                         |

· **TSCA (Toxic Substances Control Act):**

|           |                  |        |
|-----------|------------------|--------|
| 75-05-8   | acetonitrile     | ACTIVE |
| 62-73-7   | dichlorvos (ISO) | ACTIVE |
| 63-25-2   | carbaryl (ISO)   | ACTIVE |
| 116-06-3  | aldicarb (ISO)   | ACTIVE |
| 333-41-5  | diazinon (ISO)   | ACTIVE |
| 1563-66-2 | carbofuran (ISO) | ACTIVE |

· **Hazardous Air Pollutants**

|         |                  |
|---------|------------------|
| 75-05-8 | acetonitrile     |
| 62-73-7 | dichlorvos (ISO) |
| 63-25-2 | carbaryl (ISO)   |

· **Proposition 65**

· **Chemicals known to cause cancer:**

|           |                  |
|-----------|------------------|
| 62-73-7   | dichlorvos (ISO) |
| 63-25-2   | carbaryl (ISO)   |
| 1596-84-5 | Daminozide       |

· **Chemicals known to cause reproductive toxicity for females:**

|         |                |
|---------|----------------|
| 63-25-2 | carbaryl (ISO) |
|---------|----------------|

· **Chemicals known to cause reproductive toxicity for males:**

|         |                |
|---------|----------------|
| 63-25-2 | carbaryl (ISO) |
|---------|----------------|

· **Chemicals known to cause developmental toxicity:**

|           |                    |
|-----------|--------------------|
| 63-25-2   | carbaryl (ISO)     |
| 2921-88-2 | chlorpyrifos (ISO) |

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71751-41-2 abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

|            |                  |        |
|------------|------------------|--------|
| 75-05-8    | acetonitrile     | CBD, D |
| 62-73-7    | dichlorvos (ISO) | B2     |
| 116-06-3   | aldicarb (ISO)   | D      |
| 74115-24-5 | Clofentezine     | C      |

**· TLV (Threshold Limit Value established by ACGIH)**

|           |                    |    |
|-----------|--------------------|----|
| 75-05-8   | acetonitrile       | A4 |
| 62-73-7   | dichlorvos (ISO)   | A4 |
| 63-25-2   | carbaryl (ISO)     | A4 |
| 333-41-5  | diazinon (ISO)     | A4 |
| 1563-66-2 | carbofuran (ISO)   | A4 |
| 2921-88-2 | chlorpyrifos (ISO) | A4 |

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

**· Date of preparation / last revision** 03/01/2021 / -

**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

**· \* Data compared to the previous version altered.**