1 Identification

- Product identifier
- Trade name: Custom Standard
- Part number: DK-102390
- Application of the substance / the mixture Laboratory chemicals

- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  ULTRA Scientific, Inc.
  250 Smith Street
  North Kingstown, RI  02852
  USA

- Information department:
  Telephone: (401) 294-9400
  Fax: (401) 295-2300
  E-mail: regulatory@ultrasci.com

- Emergency telephone number:
  US: +1-800-424-9300
  Outside US: +1-703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture

  GHS02 Flame
  Flam. Liq. 2 H225 Highly flammable liquid and vapor.

  GHS06 Skull and crossbones
  Acute Tox. 3 H331 Toxic if inhaled.

  GHS08 Health hazard
  Carc. 1B H350 May cause cancer.
  Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  STOT SE 1 H370 Causes damage to organs.

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

  GHS02 GHS06 GHS08

- Signal word Danger

  Hazard-determining components of labeling:
  methanol
dimethyl nitrosoamine

(Contd. on page 2)
Trade name: Custom Standard

nitrosodipropylamine
diethylnitrosoamine

- **Hazard statements**
  - Highly flammable liquid and vapor.
  - Toxic if inhaled.
  - May cause cancer.
  - Suspected of damaging fertility or the unborn child.
  - Causes damage to organs.

- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe dust/fume/gas/mist/vapors/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF exposed or concerned: Get medical advice/attention.
  - Specific treatment (see on this label).

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 1
    - Fire = 3
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - HEALTH: Health = *1
    - FIRE: Fire = 3
    - REACTIVITY: Reactivity = 0

- **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.
Safety Data Sheet
acc. to OSHA HCS

Printing date 02/12/2018
Reviewed on 02/12/2018
Version Number 1

Trade name: Custom Standard

- Dangerous components:

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>98.23%</td>
</tr>
<tr>
<td>62-75-9</td>
<td>dimethylnitrosoamine</td>
<td>0.126%</td>
</tr>
<tr>
<td>55-18-5</td>
<td>diethylnitrosoamine</td>
<td>0.126%</td>
</tr>
<tr>
<td>621-64-7</td>
<td>nitrosodipropylamine</td>
<td>0.126%</td>
</tr>
<tr>
<td>924-16-3</td>
<td>N-nitrosodibutylamine</td>
<td>0.126%</td>
</tr>
<tr>
<td>100-75-4</td>
<td>1-nitrosopiperidine</td>
<td>0.126%</td>
</tr>
<tr>
<td>930-55-2</td>
<td>1-nitrosopyrrolidine</td>
<td>0.126%</td>
</tr>
<tr>
<td>59-89-2</td>
<td>N-nitrosomorpholine</td>
<td>0.126%</td>
</tr>
<tr>
<td>614-00-6</td>
<td>N-methyl-N-nitrosoaniline</td>
<td>0.126%</td>
</tr>
<tr>
<td>601-77-4</td>
<td>N-Nitrosodiisopropylamine</td>
<td>0.126%</td>
</tr>
<tr>
<td>1116-54-7</td>
<td>2,2'-(nitrosoimino)bisethanol</td>
<td>0.126%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- Description of first aid measures
- General information:
  - Immediately remove any clothing soiled by the product.
  - Remove breathing apparatus only after contaminated clothing have been completely removed.
  - In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation:
  - Supply fresh air or oxygen; call for doctor.
  - In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  - Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  - Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
  - If symptoms persist consult 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:
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: 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).
Trade name: Custom Standard

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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 methanol</td>
<td>530 ppm</td>
</tr>
<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td>0.082 mg/m³</td>
</tr>
<tr>
<td>621-64-7 nitrosodipropylamine</td>
<td>5.6 mg/m³</td>
</tr>
<tr>
<td>59-89-2 N-nitrosomorpholine</td>
<td>0.85 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 methanol</td>
<td>2,100 ppm</td>
</tr>
<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td>0.9 mg/m³</td>
</tr>
<tr>
<td>621-64-7 nitrosodipropylamine</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>59-89-2 N-nitrosomorpholine</td>
<td>9.3 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 methanol</td>
<td>7200* ppm</td>
</tr>
<tr>
<td>62-75-9 dimethylnitrosoamine</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td>621-64-7 nitrosodipropylamine</td>
<td>95 mg/m³</td>
</tr>
<tr>
<td>59-89-2 N-nitrosomorpholine</td>
<td>56 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
  · Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
    Keep respiratory protective device available.

· 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:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

<table>
<thead>
<tr>
<th>constituent</th>
<th>PEL Long-term value</th>
<th>REL Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>260 mg/m³, 200 ppm</td>
<td>325 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td>260 mg/m³, 200 ppm</td>
<td>328 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>dimethylnitrosoamine</td>
<td>see 29 CFR 1910.1003</td>
<td>See Pocket Guide App. A</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>constituent</th>
<th>BEI 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)</th>
</tr>
</thead>
</table>

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.
Store protective clothing separately.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: Custom Standard

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Color: Colorless
  - **Odor:** Alcohol-like
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** -98 °C (-144.4 °F)
  - **Boiling point/Boiling range:** 64.7 °C (148.5 °F)

- **Flash point:** 9 °C (48.2 °F)

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

- **Ignition temperature:** 455 °C (851 °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: 5.5 Vol %
  - Upper: 44 Vol %

- **Vapor pressure at 20 °C (68 °F):** 100 hPa (75 mm Hg)

- **Density at 20 °C (68 °F):** 0.8 g/cm³ (6.676 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.

- **Solvent content:**
  - **Organic solvents:** 98.2 %
Trade name: Custom Standard

VOC content: 98.23 %
982.3 g/l / 8.20 lb/gl
Solids content: 0.5 %
Other information: 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 17,753 mg/kg (rat)
  Dermal LD50 237,342 mg/kg
  Inhalative LC50/4 h 3.05 mg/L
  67-56-1 methanol
  Oral LD50 5,628 mg/kg (rat)
  Dermal LD50 15,800 mg/kg (rabbit)
  62-75-9 dimethylnitrosoamine
  Oral LD50 37 mg/kg (rat)
  Inhalative LC50/4 h 78 mg/L (rat)
  55-18-5 diethylnitrosoamine
  Oral LD50 220 mg/kg (rat)
  621-64-7 nitrosodipropylamine
  Oral LD50 480 mg/kg (rat)
  924-16-3 N-nitrosodibutylamine
  Oral LD50 1,200 mg/kg (rat)
  100-75-4 1-nitrosopiperidine
  Oral LD50 200 mg/kg (rat)
  930-55-2 1-nitrosopyrrolidine
  Oral LD50 900 mg/kg (rat)
  59-89-2 N-nitrosomorpholine
  Oral LD50 282 mg/kg (rat)
46.0.5

614-00-6 N-methyl-N-nitrosoaniline
Oral LD50 225 mg/kg (rat)

601-77-4 N-Nitrosodiisopropylamine
Oral LD50 850 mg/kg (rat)

- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.

- Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Toxic

- Carcinogenic categories

  - IARC (International Agency for Research on Cancer)
    - 62-75-9 dimethylnitrosoamine 2A
    - 55-18-5 diethylnitrosoamine 2A
    - 621-64-7 nitrosodipropylamine 2B
    - 924-16-3 N-nitrosodibutylamine 2B
    - 100-75-4 1-nitrosopiperidine 2B
    - 930-55-2 1-nitrosopyrrolidine 2B
    - 59-89-2 N-nitrosomorpholine 2B
    - 1116-54-7 2,2'-(nitrosoimino)bisethanol 2B

  - NTP (National Toxicology Program)
    - 62-75-9 dimethylnitrosoamine R
    - 55-18-5 diethylnitrosoamine R
    - 621-64-7 nitrosodipropylamine R
    - 924-16-3 N-nitrosodibutylamine R
    - 100-75-4 1-nitrosopiperidine R
    - 930-55-2 1-nitrosopyrrolidine R
    - 59-89-2 N-nitrosomorpholine R
    - 1116-54-7 2,2'-(nitrosoimino)bisethanol R

  - OSHA-Ca (Occupational Safety & Health Administration)
    - 62-75-9 dimethylnitrosoamine

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.
Trade name: Custom Standard

- 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.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA: UN1230

- UN proper shipping name
  - DOT: Methanol solution
  - IMDG, IATA: METHANOL solution

- Transport hazard class(es)
  - DOT
    - Class: 3 Flammable liquids
    - Label: 3, 6.1

  - IMDG
    - Class: 3 Flammable liquids
    - Label: 3/6.1

  - IATA
    - Class: 3 Flammable liquids
    - Label: 3 (6.1)

- Packing group
  - DOT, IMDG, IATA: II

- Environmental hazards:
  - Not applicable.
Special precautions for user
Warning: Flammable liquids

Danger code (Kemler):
336

EMS Number:
F-E-S-D

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: 1 L
On cargo aircraft only: 60 L

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 1230 METHANOL SOLUTION, 3 (6.1), II

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

Sara
Section 355 (extremely hazardous substances):
62-75-9 dimethylnitrosoamine

Section 313 (Specific toxic chemical listings):
67-56-1 methanol
62-75-9 dimethylnitrosoamine
55-18-5 diethylnitrosoamine
621-64-7 nitrosodipropylamine
924-16-3 N-nitrosodibutylamine
100-75-4 1-nitrosopiperidine
59-89-2 N-nitrosomorpholine

TSCA (Toxic Substances Control Act):
67-56-1 methanol
62-75-9 dimethylnitrosoamine
55-18-5 diethylnitrosoamine
621-64-7 nitrosodipropylamine
924-16-3 N-nitrosodibutylamine
100-75-4 1-nitrosopiperidine
930-55-2 1-nitrosopyrrolidine
614-00-6 N-methyl-N-nitrosoaniline
1116-54-7 2,2’-(nitrosoiminoo)bisethanol

(Contd. of page 9)
## Trade name: Custom Standard

### TSCA new (21st Century Act) (Substances not listed)
- 62-75-9 dimethylnitrosoamine
- 55-18-5 diethylnitrosoamine
- 621-64-7 nitrosodipropylamine
- 924-16-3 N-nitrosodibutylamine
- 100-75-4 1-nitrosopiperidine
- 930-55-2 1-nitrosopyrrolidine
- 59-89-2 N-nitrosomorpholine
- 614-00-6 N-methyl-N-nitrosaniline
- 601-77-4 N-Nitrosodiisopropylamine
- 1116-54-7 2,2’-(nitrosoimino)bisethanol

### Proposition 65
- **Chemicals known to cause cancer:**
  - 62-75-9 dimethylnitrosoamine
  - 55-18-5 diethylnitrosoamine
  - 621-64-7 nitrosodipropylamine
  - 924-16-3 N-nitrosodibutylamine
  - 100-75-4 1-nitrosopiperidine
  - 930-55-2 1-nitrosopyrrolidine
  - 59-89-2 N-nitrosomorpholine
  - 1116-54-7 2,2’-(nitrosoimino)bisethanol

### Carcinogenic categories
- **EPA (Environmental Protection Agency)**
  - 62-75-9 dimethylnitrosoamine B2
  - 55-18-5 diethylnitrosoamine B2
  - 621-64-7 nitrosodipropylamine B2
  - 924-16-3 N-nitrosodibutylamine B2
  - 930-55-2 1-nitrosopyrrolidine B2
  - 1116-54-7 2,2’-(nitrosoimino)bisethanol B2

- **TLV (Threshold Limit Value established by ACGIH)**
  - 62-75-9 dimethylnitrosoamine A3

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 62-75-9 dimethylnitrosoamine

### GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
Trade name: Custom Standard

- **Hazard pictograms**
  
  - GHS02
  - GHS06
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - methanol
  - dimethylnitrosoamine
  - nitrosodipropylamine
  - diethylnitrosoamine

- **Hazard statements**
  - Highly flammable liquid and vapor.
  - Toxic if inhaled.
  - May cause cancer.
  - Suspected of damaging fertility or the unborn child.
  - Causes damage to organs.

- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe dust/fume/gas/mist/vapors/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - IF exposed or concerned: Get medical advice/attention.
  - Specific treatment (see on this label).
  - In case of fire: Use for extinction: CO2, powder or water spray.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

- **Additional classification according to Decree on Hazardous Materials:**
  - Carcinogenic hazardous material group III (dangerous).

- **Information about limitation of use:**
  - Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
  - Exceptions can be made by the authorities in certain cases.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision: 02/12/2018 / -
- 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
  - BEI: Biological Exposure Limit
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Acute Tox. 3: Acute toxicity – Category 3
  - Carc. 1B: Carcinogenicity – Category 1B
  - Repr. 2: Reproductive toxicity – Category 2
  - STOT SE 1: Specific target organ toxicity (single exposure) – Category 1