SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: ODV Marquis Reagent
- Article number: 902 (1006317), 7602 (1006029)

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Nitric Acid Reagent / General Screening Drug Test

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Safariland, LLC
  13386 International Parkway
  Jacksonville, FL 32218
  Customer Care (800) 347-1200

1.4 Emergency telephone number:
- ChemTel Inc.
  (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - Skin Corr. 1A H314: Causes severe skin burns and eye damage.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  - C; Corrosive
    R34: Causes burns.

- Information concerning particular hazards for human and environment:
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
  The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
Trade name: ODV Marquis Reagent

- Hazard pictograms

GHS05

- Signal word Danger

- Hazard-determining components of labelling:
  nitric acid

- Hazard statements
  H314 Causes severe skin burns and eye damage.

- Precautionary statements
  P280 Wear protective gloves / eye protection.
  P264 Wash thoroughly after handling.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazard description:

- WHMIS-symbols:
  D2B - Toxic material causing other toxic effects
  E - Corrosive material

- NFPA ratings (scale 0 - 4)

  Health = 3
  Fire = 0
  Reactivity = 0

- HMIS-ratings (scale 0 - 4)

  Health = 3
  Fire = 0
  Reactivity = 0

- HMIS Long Term Health Hazard Substances

  None of the ingredients is listed.

- 2.3 Other hazards

  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Index number:</th>
<th>nitric acid</th>
<th>R35; O8</th>
<th>Ox. Liq. 3, H272</th>
<th>Skin Corr. 1A, H314</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>231-714-2</td>
<td>007-004-00-1</td>
<td></td>
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</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  - Immediately wash with water and soap and rinse thoroughly.
  - Seek immediate medical advice.
- **After eye contact:**
  - Protect unharmed eye.
  - Remove contact lenses if worn, if possible.
  - Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.
  - Drink plenty of water and provide fresh air. Call for a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**
  - Gastric or intestinal disorders.
  - Strong caustic effect on skin and mucous membranes.

- **Hazards**
  - Danger of circulatory collapse.
  - Danger of disturbed cardiac rhythm.
  - Danger of gastric perforation.
  - Danger of severe eye injury.

- **4.3 Indication of any immediate medical attention and special treatment needed**
  - Medical supervision for at least 48 hours.
  - Later observation for pneumonia and pulmonary oedema.
  - If necessary oxygen respiration treatment.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
Trade name: ODV Marquis Reagent

- 5.2 Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
  - Protective equipment:
    Wear self-contained respiratory protective device.
    Wear fully protective suit.
  - Additional information: No further relevant information available.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
  Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  Send for recovery or disposal in suitable receptacles.
  Dispose contaminated material as waste according to item 13.
  Clean the affected area carefully; suitable cleaners are:
    Warm water
- 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  Prevent formation of aerosols.
  Avoid splashes or spray in enclosed areas.
  Use only in well ventilated areas.
- Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage:
    Requirements to be met by storerooms and receptacles:
    Store only in the original receptacle.
    Unsuitable material for receptacle: aluminium.
    Unsuitable material for receptacle: steel.
  - Information about storage in one common storage facility:
    Store away from foodstuffs.
    Do not store together with alkalis (caustic solutions).
    Store away from metals.
  - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>7697-37-2 nitric acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
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<tr>
<td>PEL (USA)</td>
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<td>REL (USA)</td>
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<td>TLV (USA)</td>
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<td>EL (Canada)</td>
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<tr>
<td>EV (Canada)</td>
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</table>

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Respiratory protection:

Not necessary if room is well-ventilated. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of hands:

Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
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 can not 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.

For the permanent contact gloves made of the following materials are suitable:
Nitrile rubber, NBR
Neoprene gloves

Not suitable are gloves made of the following materials:
PVA gloves
Only glove materials listed above should be used.

Eye protection:
Contact lenses should not be worn.

Body protection: Acid resistant protective clothing

Limitation and supervision of exposure into the environment
No further relevant information available.

Risk management measures
See Section 7 for additional information.
No further relevant information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information
Appearance:
Form: Liquid
Colour: Colourless
Odour: Acrid
Odour threshold: Not determined.

pH-value at 20 °C:
< 1

Change in condition
Melting point/Melting range: Not Determined.
Boiling point/Boiling range: 122 °C (176-185 °F)

Flash point: Not applicable.
Flammability (solid, gaseous): Not applicable.
Auto/Self-ignition temperature: Not determined.
Decomposition temperature: Not determined.

(Contd. on page 7)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Trade name: ODV Marquis Reagent

- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapour pressure at 20 °C: 23 hPa
- Density at 20 °C: 1,41 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0,0 %
  - Water: 40,0 %

9.2 Other information
No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
  Reacts with alkali and metals.
  Corrosive action on metals.
  Reacts with peroxides.
  Develops toxic gases/fumes.
  Develops corrosive gases/fumes.
  Reacts with peroxides and other radical forming substances.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Nitrogen oxides

(Contd. on page 8)
SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: Caustic effect on skin and mucous membranes.
      - on the eye: Strong caustic effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    Corrosive
    Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: Large quantities will cause harm to aquatic life
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential Does not accumulate in organisms.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
  - Remark: After neutralization a reduction of the harming action may be recognized
- Additional ecological information:
  - General notes:
    Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Must not reach sewage water or drainage ditch undiluted or unneutralized.
    Danger to drinking water if even small quantities leak into the ground.
    Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

(Contd. on page 9)
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water only.

### SECTION 14: Transport information

- **14.1 UN-Number**
  - DOT, ADR, IMDG, IATA

- **14.2 UN proper shipping name**
  - DOT, IMDG, IATA
  - ADR

- **14.3 Transport hazard class(es)**
  - DOT
  - Class
  - Label
    - 8 Corrosive substances.
    - 8

- **ADR**
  - Class
  - Label
    - 8 (C1) Corrosive substances.
    - 8

- **IMDG, IATA**
  - Class
  - Label
  - 14.4 Packing group
  - DOT, ADR, IMDG, IATA
  - 14.5 Environmental hazards:
    - Marine pollutant:
      - No
  - 14.6 Special precautions for user
    - Warning: Corrosive substances.
  - Danger code (Kepler):
    - 80
  - EMS Number:
    - F-A,S-B
  - Segregation groups
    - Acids

(Contd. on page 10)
**Trade name:** ODV Marquis Reagent

- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
  
  - **Transport/Additional information:**
    - **ADR**
      - Limited quantities (LQ): 1L
      - Transport category: 2
      - Tunnel restriction code: E
    - **IMDG**
      - Limited quantities (LQ): 1L
      - DOT
      - Remarks: DOT Special Provision DOT-SP 15847 qualifies this product as an excepted quantity.
    - **UN "Model Regulation":** UN2031, NITRIC ACID, solution, 8, II

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA**
  - **Section 355 (extremely hazardous substances):**
    - 7697-37-2 nitric acid
  - **Section 313 (Specific toxic chemical listings):**
    - 7697-37-2 nitric acid
  - **TSCA (Toxic Substances Control Act):**
    - All ingredients are listed.
- **Proposition 65 (California):**
  - **Chemicals known to cause cancer:**
    - None of the ingredients is listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    - None of the ingredients are listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    - None of the ingredients is listed.
  - **Chemicals known to cause developmental toxicity:**
    - None of the ingredients is listed.
- **Carcinogenic Categories**
  - **EPA (Environmental Protection Agency)**
    - None of the ingredients is listed.
  - **IARC (International Agency for Research on Cancer)**
    - None of the ingredients is listed.
### Trade name: ODV Marquis Reagent

<table>
<thead>
<tr>
<th>(Contd. of page 10)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>· TLV (Threshold Limit Value established by ACGIH)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>· NIOSH-Ca (National Institute for Occupational Safety and Health)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>· Canada</strong></td>
</tr>
<tr>
<td><strong>· Canadian Domestic Substances List (DSL)</strong></td>
</tr>
<tr>
<td>All ingredients are listed.</td>
</tr>
<tr>
<td><strong>· Canadian Ingredient Disclosure list (limit 0.1%)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>· Canadian Ingredient Disclosure list (limit 1%)</strong></td>
</tr>
<tr>
<td>7697-37-2 nitric acid</td>
</tr>
</tbody>
</table>

| **· Other regulations, limitations and prohibitive regulations** |
| This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |

| **· Substances of very high concern (SVHC) according to REACH, Article 57** |
| None of the ingredients is listed. |

| **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out. |

### SECTION 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.

| **· Relevant phrases** |
| H272 May intensify fire; oxidiser. |
| H314 Causes severe skin burns and eye damage. |
| R35 Causes severe burns. |
| R8 Contact with combustible material may cause fire. |

| **· 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 |
| GHS: Globally Harmonized System of Classification and Labelling of Chemicals |
| 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) |
| WHMIS: Workplace Hazardous Materials Information System (Canada) |
| DNEL: Derived No-Effect Level (REACH) |
| PNEC: Predicted No-Effect Concentration (REACH) |
| Ox. Liq. 3: Oxidising Liquids, Hazard Category 3 |
| Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A |

(Contd. on page 12)
<table>
<thead>
<tr>
<th>Trade name: ODV Marquis Reagent</th>
</tr>
</thead>
</table>

- **Sources**
  - SDS Prepared by: ChemTel Inc.
  - 1305 North Florida Avenue
  - Tampa, Florida USA 33602-2902
  - Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
  - Website: www.chemtelinc.com

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