#### Safety Data Sheet

### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

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

- · 1.1 Product identifier
- · Trade name: ODV Nitric Acid Reagent
- **Product code:** 903 (1006318)
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against

NarcoPouch Nitric Acid Reagent Presumptive Secondary Screening Test

- · Uses advised against: Contact manufacturer.
- · 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.

+1 (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

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

nitric acid

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P260 Do not breathe mist.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection.

(Cont'd. on page 2)

Page: 2/12

#### **Safety Data Sheet**

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 1)

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.

P310 Immediately call a POISON CENTER/doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international

egulations.

· NFPA ratings (scale 0 - 4)



Health = 4Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



4 Health = 4 0 Fire = 0

REACTIVITY Reactivity = 0

- · 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

· Components:

CAS: 7697-37-2 EINECS: 231-714-2 nitric acid

Ox. Liq. 3, H272 Skin Corr. 1A, H314

50-100%

Index number: 007-004-00-1

· Additional information: For the wording of the listed Hazard Statements 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.

(Cont'd. on page 3)

## Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 2)

Seek immediate medical advice.

Seek immediate medical help for blistering or open wounds.

· 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.

Causes serious eye damage.

· 4.3 Indication of any immediate medical attention and special treatment needed

Monitor circulation, possible shock treatment.

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.
- · 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

(Cont'd. on page 4)

Page: 4/12

## Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 3)

#### · 6.2 Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### · 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 section 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:

#### 7697-37-2 nitric acid

IOELV (EU) Short-term value: 2,6 mg/m³, 1 ppm PEL (USA) Long-term value: 5 mg/m³, 2 ppm

(Cont'd. on page 5)

Page: 5/12

### Safety Data Sheet

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

		(Cont'd. from page 4)
REL (USA)	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm	
TLV (USA)	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5,2 mg/m³, 2 ppm	
EL (Canada)	Short-term value: 4 ppm Long-term value: 2 ppm	
EV (Canada)	Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm	

- · **DNELs:** No further relevant information available.
- · PNECs: No further relevant information available.

#### · 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.

(Cont'd. on page 6)

Page: 6/12

### **Safety Data Sheet**

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 5)

· Eye protection:

Contact lenses should not be worn.



Safety glasses

- · 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.

9.1 Information on basic physical and chemical properties				
Colour:	Liquid Colourless			
Odour:	Acrid			
Odour threshold:	Not determined.			
pH-value at 20 °C (68 °F):	< 1			
Melting point/Melting range:	Not determined.			
Boiling point/Boiling range:	122 °C (252 °F)			
Flash point:	Not applicable.			
Flammability (solid, gaseous):	Not applicable.			
Auto/Self-ignition temperature:	Not determined.			
Decomposition temperature:	Not determined.			
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 (68 °F):	23 hPa (17 mm Hg)			
Density at 20 °C (68 °F):	1,41 g/cm³ (11,766 lbs/gal)			
Relative density:	Not determined.			
Vapour density:	Not determined.			
Evaporation rate:	Not determined.			
Solubility in / Miscibility with				
water:	Fully miscible.			

Page: 7/12

#### **Safety Data Sheet**

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 6)

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

· Viscosity

**Dynamic:** Not determined. **Kinematic:** Not determined.

• **9.2 Other information** No further relevant information available.

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 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.

Develops toxic gases/fumes.

Develops corrosive gases/fumes.

Reacts with peroxides and other radical forming substances.

Toxic fumes may be released if heated above the decomposition point.

- 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

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification: None.
- · Primary irritant effect
- · Skin corrosion/irritation:

Causes severe skin burns and eye damage.

· Serious eve damage/irritation:

Causes serious eye damage.

- · Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

(Cont'd. on page 8)

Page: 8/12

## Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 7)

- · Acute effects (acute toxicity, irritation and corrosivity): Causes severe skin burns and eye damage.
- · Repeated dose toxicity: From product as supplied: None.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

#### **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.
- · Ecotoxical effects:
- · Remark: After neutralisation a reduction of the harming action may be recognised.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

Small amounts may be diluted with plenty of water and washed away. Dispose of larger 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.

(Cont'd. on page 9)

Page: 9/12

# Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

· Recommended cleansing agents: Water only.

(Cont'd. from page 8)

SECTION 14: Transport information			
· 14.1 UN-Number · DOT, ADR, IMDG, IATA	UN2031		
· 14.2 UN proper shipping name · DOT, IMDG, IATA · ADR	NITRIC ACID, solution 2031 NITRIC ACID, solution		
· 14.3 Transport hazard class(es)			
· DOT			
· Class · Label	8 Corrosive substances.		
· ADR			
· Class · Label	8 (C1) Corrosive substances.		
· IMDG, IATA			
· Class · Label	8 Corrosive substances.		
· 14.4 Packing group · DOT, ADR, IMDG, IATA	П		
· 14.5 Environmental hazards: · Marine pollutant:	No		
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Segregation groups</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Acids		
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.			
		(Cont'd. on page	

Page: 10/12

#### **Safety Data Sheet**

### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

**Trade name: ODV Nitric Acid Reagent** 

	(Cont'd. from page 9
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code	1L 2
· DOT	
· Remarks:	DOT Special Provision DOT-SP 15847 qualifies this product as an excepted quantity.

#### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- · 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 are 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 are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic Categories
- · EPA (Environmental Protection Agency)

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

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

None of the ingredients are listed.

(Cont'd. on page 11)

Page: 11/12

#### **Safety Data Sheet**

### according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 10)

· Canada

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0,1%)

None of the ingredients are listed.

· Canadian Ingredient Disclosure list (limit 1%)

7697-37-2 nitric acid

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients are 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.

#### Abbreviations and acronyms:

ADR: 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 Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Ox. Liq. 3: Oxidising Liquids, Hazard Category 3

Met. Corr.1: Corrosive to metals, Hazard Category 1

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

#### Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

(Cont'd. on page 12)

Page: 12/12

# Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA GHS

Printing date: February 17, 2016 Revision: February 17, 2016

Trade name: ODV Nitric Acid Reagent

(Cont'd. from page 11)

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com