

# Aerospray TB Reagent A: Carbol Fuchsin Decolorizer Concentrate

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Aerospray TB Reagent A: Carbol Fuchsin Decolorizer Concentrate  
 Product code : SS-161A

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Laboratory chemical

#### 1.3. Details of the supplier of the safety data sheet

ELITechGroup Inc.  
 370 West 1700 South  
 Logan, UT 84321 - USA  
 T +1 (435) 752-6011 - F +1 (435) 752-4127  
[qara\\_ebs@elitechgroup.com](mailto:qara_ebs@elitechgroup.com) - [www.elitechgroup.com](http://www.elitechgroup.com)

#### 1.4. Emergency telephone number

Emergency number : Contact your distributor or poison control center in your country.  
 InfoTrac Emergency Response: Calls within the USA, phone: 1-800-535-5053. Calls outside the USA, phone: +1 352-323-3500 (call collect)  
 Customer ID: #90104 (NOTE: this number is required when a customer calls into either phone number above).

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

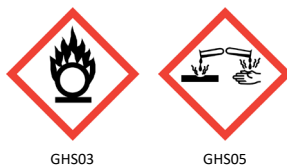
Ox. Liq. 2 H272 - May intensify fire; oxidizer  
 Met. Corr. 1 H290 - May be corrosive to metals  
 Skin Corr. 1 H314 - Causes severe skin burns and eye damage

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H272 - May intensify fire; oxidizer  
 H290 - May be corrosive to metals  
 H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 - Keep/Store away from clothing, combustible materials  
 P234 - Keep only in original container.  
 P260 - Do not breathe mist, spray, vapors, fume.  
 P264 - Wash hands thoroughly after handling  
 P280 - Wear protective gloves, protective clothing, eye protection.  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P363 - Wash contaminated clothing before reuse.

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P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), D-powder, dry extinguishing powder, foam to extinguish.  
P390 - Absorb spillage to prevent material-damage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name        | Product identifier  | %       | GHS US classification   |
|-------------|---------------------|---------|---|
| nitric acid | (CAS-No.) 7697-37-2 | 20 – 35 | Ox. Liq. 2, H272<br>Met. Corr. 1, H290<br>Skin Corr. 1A, H314 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.  
Symptoms/effects after skin contact : Burns.  
Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Burns.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May intensify fire; oxidizer.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.  
Reactivity : The product is non-reactive under normal conditions of use, storage and transport. May intensify fire; oxidizer.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Fight fire remotely due to the risk of explosion.

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapors. Do not get in eyes, on skin, or on clothing. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion. May be corrosive to metals.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapors. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. Store in corrosive resistant container with a resistant inner liner. Keep only in original container.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Combustible materials. Metals.

Packaging materials : Store in corrosive resistant container with a resistant inner liner.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| nitric acid (7697-37-2) |                        |   |
|-------------------------|------------------------|---|
| ACGIH                   | ACGIH TWA (ppm)        | 2 ppm                                     |
| ACGIH                   | ACGIH STEL (ppm)       | 4 ppm                                     |
| ACGIH                   | Remark (ACGIH)         | TLV® Basis: URT & eye irr; dental erosion |
| OSHA                    | OSHA PEL (TWA) (mg/m³) | 5 mg/m³                                   |
| OSHA                    | OSHA PEL (TWA) (ppm)   | 2 ppm                                     |

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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|                                 |   |
|---------------------------------|---|
| Personal protective equipment   | : Avoid all unnecessary exposure.   |
| Hand protection                 | : Wear protective gloves. Suitable gloves should be tested to EN 374. The glove material has to be impermeable and resistant to the product/the substance/the preparation. As the product is a preparation of several substances, the resistance and penetration time/breakthrough time of the glove material cannot be calculated/observed in advance and, therefore, has to be checked prior to the application. The following are recommended: materials - natural latex or nitrile; thickness - 4 to 6 mils (0.1 mm - 0.15 mm); minimum breakthrough time - 60 minutes. |
| Eye protection                  | : Safety glasses.   |
| Skin and body protection        | : Wear suitable protective clothing.  |
| Respiratory protection          | : In case of insufficient ventilation, wear suitable respiratory equipment.   |
| Environmental exposure controls | : Avoid release to the environment.   |
| Other information               | : Do not eat, drink or smoke during use.  |

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |   |
|---|---|
| Physical state                                  | : Liquid  |
| Color   | : Colourless to yellow; On exposure to light: yellow to red-brown |
| Odor  | : Odorless to irritating/pungent odour                            |
| Odor threshold                                  | : No data available   |
| pH  | : < 1   |
| Melting point                                   | : Not applicable  |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : No data available   |
| Flash point                                     | : No data available   |
| Relative evaporation rate (butyl acetate=1)     | : No data available   |
| Flammability (solid, gas)                       | : No data available   |
| Explosion limits                                | : No data available   |
| Explosive properties                            | : No data available   |
| Oxidizing properties                            | : May intensify fire; oxidizer.                                   |
| Vapor pressure                                  | : No data available   |
| Relative density                                | : No data available   |
| Relative vapor density at 20 °C                 | : No data available   |
| Solubility                                      | : Water: No data available  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Viscosity                                       | : No data available   |
| Viscosity, kinematic                            | : No data available   |
| Viscosity, dynamic                              | : No data available   |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. May intensify fire; oxidizer.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong acids. Strong bases. metals. May be corrosive to metals. Combustible materials.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | : Not classified   |
| Skin corrosion/irritation         | : Causes severe skin burns.<br>pH: < 1   |
| Serious eye damage/irritation     | : Assumed to cause serious eye damage<br>pH: < 1                                     |
| Respiratory or skin sensitization | : Not classified   |
| Germ cell mutagenicity            | : Not classified<br>Based on available data, the classification criteria are not met |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified<br>Based on available data, the classification criteria are not met |
| STOT-single exposure              | : Not classified   |
| STOT-repeated exposure            | : Not classified   |

| nitric acid (7697-37-2)               |  |
|---------------------------------------|--|
| NOAEL (oral, rat, 90 days)            | 1500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)        |
| NOAEC (inhalation, rat, gas, 90 days) | 2.15 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |

|   |   |
|---|---|
| Aspiration hazard                                   | : Not classified  |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after skin contact                 | : Burns.  |
| Symptoms/effects after eye contact                  | : Serious damage to eyes.   |
| Symptoms/effects after ingestion                    | : Burns.  |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

| nitric acid (7697-37-2) |  |
|-------------------------|--|
| NOEC chronic fish       | 97.8 mg/l Test organisms (species): other:Amphiprion ocellaris (anemone fish) Duration: '3 mo' |

### 12.2. Persistence and degradability

| Aerospray TB Reagent A: Carbol Fuchsin Decolorizer Concentrate |                  |
|--|------------------|
| Persistence and degradability                                  | Not established. |

| nitric acid (7697-37-2)       |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

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### 12.3. Bioaccumulative potential

| Aerospray TB Reagent A: Carbol Fuchsin Decolorizer Concentrate |                  |
|--|------------------|
| Bioaccumulative potential                                      | Not established. |
| nitric acid (7697-37-2)  |                  |
| Bioaccumulative potential                                      | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
Additional information : Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2031 Nitric acid, 8, II  
UN-No.(DOT) : UN2031  
Proper Shipping Name (DOT) : Nitric acid  
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 158  
DOT Packaging Bulk (49 CFR 173.xxx) : 242

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|  |   |
|--|---|
| DOT Special Provisions (49 CFR 172.102)                          | : A6 - For combination packaging, if plastic inner packaging are used, they must be packed in tightly closed metal receptacles before packing in outer packaging.<br>A212 - UN 2031, Nitric acid, other than red fuming, with more than 20% and less than 65% nitric acid" intended for use in sterilization devices only, may be transported on passenger aircraft irrespective of the indication of "forbidden" in columns (9A) of the §172.101 table provided that:<br><br>a. Each inner packaging contains not more than 30 mL;<br><br>b. Each inner packaging is contained in a sealed leak-proof intermediate packaging with sufficient absorbent material capable of containing the contents of the inner packaging;<br><br>c. Intermediate packagings are securely packed in an outer packaging of a type permitted by §173.158(g) of this subchapter which meet the requirements of part 178 of this subchapter at the Packing Group I performance level;<br><br>d. The maximum quantity of nitric acid in the package does not exceed 300 mL; and<br><br>e. Transport in accordance with this special provision must be noted on the shipping paper.<br>B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.<br>B47 - Each tank may have a reclosing pressure relief device having a start-to-discharge pressure setting of 310 kPa (45 psig).<br>B53 - Packaging must be made of either aluminum or steel.<br>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1).<br>Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.<br>IP15 - For UN2031 with more than 55% nitric acid, rigid plastic IBCs and composite IBCs with a rigid plastic inner receptacle are authorized for two years from the date of IBC manufacture.<br>T8 - 4 178.274(d)(2) Normal..... Prohibited<br>TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : None  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : Forbidden   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 30 L  |
| DOT Vessel Stowage Location                                      | : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.   |
| DOT Vessel Stowage Other   | : 44 - Stow "away from" oxidizers,66 - Stow "separated from" flammable solids,74 - Stow "separated from" oxidizers,89 - Segregation same as for oxidizers,90 - Stow "separated from" radioactive materials  |
| Emergency Response Guide (ERG) Number                            | : 157   |
| Other information  | : No supplementary information available.   |

### Transportation of Dangerous Goods

No additional information available

### Transport by sea

|                             |  |
|-----------------------------|--|
| UN-No. (IMDG)               | : 2031                                     |
| Proper Shipping Name (IMDG) | : NITRIC ACID                              |
| Class (IMDG)                | : 8 - Corrosive substances                 |
| Packing group (IMDG)        | : II - substances presenting medium danger |

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### Air transport

UN-No. (IATA) : 2031  
Proper Shipping Name (IATA) : Nitric acid  
Class (IATA) : 8 - Corrosives  
Packing group (IATA) : II - Medium Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| nitric acid (7697-37-2)  |         |
|--|---------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory<br>Subject to reporting requirements of United States SARA Section 313 |         |
| CERCLA RQ  | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ)   | 1000 lb |
| SARA Section 313 - Emission Reporting  | 1 %     |

### 15.2. International regulations

#### CANADA

| nitric acid (7697-37-2)                               |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| nitric acid (7697-37-2)   |
|---|
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |

## SECTION 16: Other information

Other information : None.

Full text of H-phrases:

|      |   |
|------|---|
| H272 | May intensify fire; oxidizer            |
| H290 | May be corrosive to metals              |
| H314 | Causes severe skin burns and eye damage |

SDS US Custom - EBS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Reason For Change: updated to latest GHS format and classifications to meet compliance. Added Prop 65 information to Section 15.