UNCLASSIFIED
ACTION MEMORANDUM

February 12, 2018

TO: Christopher Payne, Bureau Environmental Officer,
Office of Afghanistan and Pakistan Affairs (BEO/OAPA)

THROUGH: Harry Bottenberg, Mission Environmental Officer, USAID
Afghanistan, Kabul
Andrei Barannik, Regional Environmental Advisor, SCA
and OAPA
Susan DeCamp, Acting Deputy Mission Director

CC: OPPD, OAG, OAA, MEO Tracking

FROM: Scott Spencer, Acting Director Office of Agriculture

SUBJECT: Inclusion of Povidone to the Afghanistan 2016
Programmatic Pesticides Evaluation Report and Safer Use
Action Plan (P-PERSUAP) for treatment of umbilical cords
of newborn livestock

ISSUE FOR DECISION

You are requested to approve the inclusion of Povidone for treatment of
umbilical cords of newborn livestock to the 2016 Afghanistan PERSUAP

Background

RADP-N is planning to use the Povidone iodine solution 7.5% to wash
umbilical cord of neonates. This will be used in the training by trained VFUs.
The VFUs will be trained on the safe use and disposal of povidone solution.
This is covered under the Capacity Building 134 Existing VFUs activity.
Povidone iodine is categorized as an antiseptic/disinfectant used to treat the
wounds. is an antimicrobial and used externally and therefore considered as a
pesticide by US EPA. Povidone is EPA registered (U.S. EPA code (046914) and
CAS number (25655-41-8) but is currently not included in the 2016 PERSUAP. It
is legally manufactured in Afghanistan and is widely available. This Memo is
intended to provide information required by Reg. 216 pesticide procedures.

1 Approved by the Acting BEO for the Office of Afghanistan and Pakistan Affairs (OAPA), John Wilson/BEO
Middle East on September 1, 2016, tracking No. OAPA-16-SEP-AFG-0038
A basic Safer Use Action Plan (SUAP) and the Material Safety Data Sheet (MSDS) for Povidone is provided with this Memo (Annex I). When used according to the SUAP and instructions provided on the labels, adverse impacts to health and the environment are not anticipated.

All safety measures specified on the label and all mitigation measures listed for safe pesticide use in the P-PERSUAP shall be followed. Training on the use of antiseptic Povidone solution for use in the livestock sector shall incorporate all applicable best practices and shall be reviewed by the MEO. Purchase of pesticides, including Povidone, shall be reviewed by MEO and implementers shall maintain a complete record of pesticide use in its demo trials and training.

**AUTHORITY**

As BEO/OAPA, pursuant to 22 CFR 216, you have the authority to approve.

**RECOMMENDATION**

That you approve the revisions to the Afghanistan 2016 Programmatic Pesticides Evaluation Report and Safer Use Action Plan (P-PERSUAP) described in this memorandum.

Approved

Disapproved

[Signature]

Christopher Payne
BEO/OAPA

Date: 2/12/14

[Signature]

Christopher Payne
BEO/OAPA

Date: __________

Drafted: OAG, Fina Kayisanabo

Date: February 12, 2018

Annex I: Information on Toxicity and Safe Use of Povidone Iodine Solution

Annex II: Labels
CLEARANCE PAGE: Inclusion of Povidone to the Programmatic Pesticides Evaluation Report and Safer Use Action Plan (P-PERSUAP) to wash umbilical cords of livestock neonates for control of microbials.

Clearance(s):

Harry Bottenberg, MEO  
Andrei Barannik, REO  
Ms. Susan DeCamp, Act DMD

Date: 2/13/2018  
Date: 2/15/2018  
Date: 2/20/2018

CC-ed: OPPD, OAG, OAA, MEO Tracking
Annex I

Information on Toxicity and Safe Use of Povidone Iodine Solution

Chemical Name: Polyvinyl pyrrolidone
EPA Registration: U.S. EPA code (046914) and CAS number (25655-41-8)

Toxicity Data

a. Toxicity Summary

Povidone-iodine is an iodophore that is used as a disinfectant and antiseptic mainly for the treatment of contaminated wounds and pre-operative preparation of the skin and mucous membranes, as well as for disinfection of equipment. Based on the United States Environmental Protection Agency, the iodine and iodophore complexes are of very low toxicity by the oral, dermal, and inhalation routes of exposure. There are no indications of special sensitivity of infants or children resulting from exposure to iodine (https://www3.epa.gov/pesticides/chem_search/reg_actions/reregistration/red_G-90_27-Jul-06.pdf).

Hazard Identification: Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

Signal Warning
Hazard statement
- Causes skin irritation
- Causes serious eye irritation and damage
- Probably causes an allergic
- Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]


Health and Symptoms

a. Chemical Danger: Decomposes on heating. This produces toxic fumes of nitrogen oxides and iodine. The solution is a weak acid.
b. Fire Hazard: Gives off irritating or toxic (or gases) in a fire.

What livestock pest will be controlled with Povidone?
Povidone as an antiseptic is used to disinfect the wounds in the veterinary fields. It will be used to wash umbilici of neonates by RADP-N. This product kills animal pathogenic bacteria both gram-negative and gram-positive as well as fungi, viruses, protozoa and yeast.

Application Methods:

a. The application is topical to the wound, skin or affected area and is use to clean both pre and post treatment.
b. Often used for surface sterilization of medical equipment and treatment surfaces. Application is by immersion or topical.

c. Safety Measures:

a. Eye/face protection: Wear safety glasses or googles if eye contact is possible
b. Skin protection: Handle with gloves. Impervious protecting clothing is recommended if skin contact with this product is possible and for bulk processing operations.
c. Skin first aid: Rinse and the wash skin with water and soap
d. Body Protection: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
e. Respiratory protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators

<table>
<thead>
<tr>
<th>Product</th>
<th>Active Ingredient</th>
<th>Material Safety Data Sheet (MSDS)</th>
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<tbody>
<tr>
<td>1. Pavin</td>
<td>Povidone iodine solution 7.5% and 10%</td>
<td>Hazard Identification: Potential Acute Health Effects: Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Safety Measures: Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Handling and Storage: Precautions: Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents. Storage: Moisture Sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C. Waste Disposal: Waste must be disposed of in accordance with available standards and environmental control regulations.</td>
</tr>
<tr>
<td>2. Avi-din</td>
<td>Povidone iodine solution 10%</td>
<td>Hazard Identification: Potential Acute Health Effects: Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Safety Measures: Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Handling and Storage: Precautions: Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents. Storage: Moisture Sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C. Waste Disposal: Waste must be disposed of in accordance with available standards and environmental control regulations.</td>
</tr>
<tr>
<td>3. Betadine</td>
<td>Povidone iodine solution 10%</td>
<td>Hazard Identification: Potential Acute Health Effects: Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Safety Measures: Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention. Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Handling and Storage: Precautions: Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk. Evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, reducing agents. Storage: Moisture Sensitive. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C. Waste Disposal: Waste must be disposed of in accordance with available standards and environmental control regulations.</td>
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Most Common products available in Afghanistan:

Povidone Iodine solution is a registered chemical inside Afghanistan that is licensed to be used and commercialized in Afghanistan. Please refer to the URL for more information:


The povidone iodine solution is widely available at markets in Afghanistan manufactured domestically and internationally. We have found three companies manufacturing the Povidone-Iodine solution in Balkh markets, two in Kabul and one in Herat. The product label contains some basic directions on the proper and safe use. The labels of the three common products are attached below:

1. Pavin (Povidone Iodine solution 7.5%) manufactured by Pamir Pharmaceuticals (Pvt. Ltd) Kabul, Afghanistan (RADP-N will only use the Pavin)
2. Betadine (Povidone Iodine 10% w/v) manufactured by Tajmir Pharmaceuticals (Co. Ltd), Kabul, Afghanistan
3. Avi-din (Povidone Iodine solution 10%) manufactured by Avison Pharma, Herat, Afghanistan
Annex II

Labels

Avi-Dia (Povidone Iodine Solution 10%). Manufactured by Avia Pharma, Hazrat Industrial Park, Afghanistan

Betadine (Povidone Iodine Solution 10%). Manufactured by Tajma Pharmaceutical Co., Ltd., Afghanistan