Product Safety Data Sheet
Skin Prep Pump Sprayer

Approvals

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Signature Date/Time: 03 JAN 2019 15:40 UTC
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Global Date/Time: 03 JAN 2019 21:41 UTC
Representation: Additional Signature
Signature Reason: Document Management: Status Change
1a) PRODUCT NAME(S):
Product Identity
Skin Prep Pump Sprayer

1b) INTENDED USE(S):
Intended use Skin Preparation
Application Method See Technical Data Sheet

1c) Details of Supplier of the Product Safety Data Sheet:
Compliance & Regulatory Department
Smith & Nephew Healthcare
Healthcare House
101 Hessle Road
Hull
HU3 2BN
Telephone: 01482 222200
Fax: 01482 222211
Email Address: Advice.Healthcare@smith-nephew.com

2. HAZARD INFORMATION:
Classification of the substance or mixture
Flam. Liq. 2;H225 Highly Flammable liquid and vapor.
Eye Irrit. 2;H319 Causes serious eye irritation.
STOT SE 3;H336 May cause drowsiness or dizziness.

Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

![Danger symbol]

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.

[Prevention]:
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
P235 Keep cool.
P240 Ground / bond container and receiving equipment.
P241 Use explosion-proof electrical / ventilating / light / equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:
P403+233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.

[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS:
This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>75-100</td>
<td>Flam. Liq. 2;H225</td>
<td>[1][2]</td>
</tr>
<tr>
<td>CAS Number: 0000067-63-0</td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STOT SE 3;H336</td>
<td></td>
</tr>
<tr>
<td>BUTENEDIOIC ACID (Z)-, MONOBUTYL ESTER, POLYMER WI</td>
<td>1.0-10</td>
<td>Not Classified</td>
<td>[1]</td>
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<tr>
<td>CAS Number: 0025119-68-0</td>
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<td></td>
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</table>

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.
*The full texts of the phrases are shown in Section 16.

4. FIRST AID: In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

a) Inhalation
Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

b) Contact with skin
No first aid should be needed.
c) Contact with eyes  Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

d) Ingestion  Do not induce vomiting. Contact the poison control center or a physician immediately for instructions.

Most important symptoms and effects, both acute and delayed

Overview  

Acute Effects

Inhalation: Exposure to high air concentrations may cause mild irritation to nose and throat. Drowsiness, headache, and mild narcosis can occur from inhalation.

Eye: Exposure to high air concentrations may cause mild irritation to eyes.

Ingestion: Ingestion may cause drowsiness, burning of the gastrointestinal tract, and death. Ingestion may cause gastrointestinal pain, cramps, nausea and vomiting.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from pre-existing disorders may be aggravated by exposure to this product.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

See section 2 for further details.

Inhalation  May cause drowsiness or dizziness.

Eyes  Causes serious eye irritation.

5. FIRE AND EMERGENCY MEASURES:

5.1. Extinguishing media
Carbon dioxide, dry chemical, alcohol foam.

5.2. Special hazards arising from the substance or mixture
Hazardous decomposition: Oxides of Carbon

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

Wear self-contained breathing apparatus and protective clothing.
6. ACCIDENTAL RELEASE MEASURES:

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Mop or wipe up small spills. Ventilate area.

Dike large spills to minimize contamination and contain material. Remove all sources of heat and ignition. Absorb with sand or vermiculite. Ventilate area to dissipate vapors.

7. HANDLING AND STORAGE PRECAUTIONS:

7.1. Precautions for safe handling

Do not use with electrocautery procedures.

See section 2 for further details.

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Strong oxidizing agents

Store in a cool (≤ 77°F / 25°C), dry, well-ventilated area away from strong oxidizing agents, sources of heat, sparks, and open flames.

See section 2 for further details.

7.3. Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

8.1. Control parameters

<table>
<thead>
<tr>
<th>Exposure</th>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0000067-63-0</td>
<td>Isopropyl Alcohol</td>
<td>OSHA</td>
<td>TWA 400 ppm (980 mg/m³) STEL 500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 200 ppm STEL: 400 ppm Revised 2003,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>NIOSH</td>
<td>TWA 400 ppm (980 mg/m³) ST 500 ppm (1225 mg/m³)</td>
</tr>
<tr>
<td></td>
<td>0025119-68-0</td>
<td>BUTENEDIOIC ACID (Z)-(MONOBUTYL ESTER, POLYMER WI</td>
<td>Supplier</td>
<td>No Established Limit</td>
</tr>
</tbody>
</table>

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8.2. Exposure controls

Respiratory

When working with small quantities in a well-ventilated area, respiratory protection may not be required.

Eyes

None required for normal use.

Skin

When working with small quantities in a well-ventilated area, protective clothing/equipment may not be required.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Clear, Colorless Liquid

Odor

Alcohol Odor

Odor threshold

Not determined

pH

Not determined

Melting point / freezing point

Not determined

Initial boiling point and boiling range

180°F

Flash Point

53°F / 11.7°C TCC

Evaporation rate (Ether = 1)

2.83 (nBuAc = 1)

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits

Lower Explosive Limit: 2.5

Upper Explosive Limit: 12

Vapor pressure (Pa)

33 mmHg

Vapor Density

2.1 (Air = 1)

Specific Gravity

0.85 @ 25°C (H₂O = 1)

Solubility in Water

Miscible

Partition coefficient n-octanol/water (Log Kow)

Not Measured

Auto-ignition temperature

Not determined
Decomposition temperature
Viscosity (cSt)
VOC Content
% Volatile

9.2. Other information
No other relevant information.

10. STABILITY AND REACTIVITY:

10.1. Reactivity
Hazardous Polymerization will not occur.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
Carbon monoxide and unidentified organic compounds may be formed during combustion.

10.4. Conditions to avoid
Avoid excessive heat, open flames and all ignition sources.

10.5. Incompatible materials
Strong oxidizing agents

10.6. Hazardous decomposition products
Oxides of Carbon

11. TOXICOLOGICAL INFORMATION::

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol - (67-63-0)</td>
<td>4,710.00, Rat - Category: 5</td>
<td>12,800.00, Rat - Category: NA</td>
<td>72.60, Rat - Category: NA</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>BUTENEDIOIC ACID (Z)-, MONOBUTYL ESTER, POLYMER WI - (25119-68-0)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Note: When no route specific LD50 data is available for an acute toxin, the converted acute
toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>2</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>3</td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION:

12.1. Toxicity
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

Aquatic Ecotoxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>96 hr LC50 fish, mg/l</th>
<th>48 hr EC50 crustacea, mg/l</th>
<th>ErC50 algae, mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol - (67-63-0)</td>
<td>1,400.00, Lepomis macrochirus</td>
<td>100.00, Daphnia magna</td>
<td>100.00 (72 hr), Scenedesmus subspicatus</td>
</tr>
<tr>
<td>BUTENEDIOIC ACID (Z)-, MONOBUTYL ESTER, POLYMER WI - (25119-68-0)</td>
<td>Not Available</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
There is no data available on the preparation itself.

12.3. Bioaccumulative potential
Not Measured

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
No data available.
13. DISPOSAL CONSIDERATIONS:
13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. TRANSPORT INFORMATION:
Notes:
1. May qualify for transportation under ‘Limited Quantities’ and/or ‘Excepted Quantities’ provisions. Consult applicable DOT, IMDG, IATA/ICAO regulations depending on transportation mode.
2. May qualify for transportation under ‘Consumer Commodity ORM-D’ provisions. Consult applicable DOT, IMDG, IATA/ICAO regulations depending on transportation mode.

<table>
<thead>
<tr>
<th></th>
<th>DOT (Domestic Surface Transportation)</th>
<th>IMO / IMDG (Ocean Transportation)</th>
<th>ICAO/IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>UN1993</td>
<td>UN1993</td>
<td>UN1993</td>
</tr>
<tr>
<td>14.2. UN proper Shipping name</td>
<td>UN1993, Flammable liquids n.o.s., (Isopropyl Alcohol), 3, II</td>
<td>Flammable liquids, n.o.s., (Isopropyl Alcohol)</td>
<td>Flammable liquids, n.o.s (Isopropyl Alcohol)</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>DOT Hazard Class: 3</td>
<td>IMDG: 3 Sub Class: Not Applicable</td>
<td>Air Class: 3</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
</tbody>
</table>

14.5. Environmental hazards
IMDG Marine Pollutant: No
14.6. Special precautions for user
No further information

15. REGULATORY INFORMATION:
Regulatory Overview
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA)
All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification
B2 D2B

US EPA Tier II Hazards
Fire: Yes
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:
Isopropyl Alcohol

Proposition 65 - Carcinogens (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):
Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):
Isopropyl Alcohol

16. ADDITIONAL INFORMATION:
The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
Not Classified

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable

17a) REFERENCE NUMBER

17b) DATE OF ISSUE

03 January 2019

This information is provided in accordance with the requirements of the UK Health and Safety at Work Act 1974, and specifically in order to assist users of the product to make their ‘assessment of health risks’ as required by the UK Control of Substances Hazardous to Health Regulation 2002 (COSHH assessments). Provision of this information does not preclude users from seeking advice from other sources as indicated in the COSHH guides. The information is intended to cover potential hazards at the place of work and does not detail medical uses, indications, contraindications and precautions for the treatment of patient.

REASON FOR CHANGE

<table>
<thead>
<tr>
<th>Document Version</th>
<th>Section/Paragraph Changed</th>
<th>Change Made</th>
<th>Date</th>
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<tr>
<td>01</td>
<td>New issue</td>
<td>Document transferred from S &amp; N Inc.SDSUM00579 as part of project Peterworth CCA2832</td>
<td>07/08/15</td>
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</tbody>
</table>

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“I have compared this paper copy to the original electronic copy on the date shown below and certify that both are the same version number”

<table>
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<th>Signature</th>
<th>Date</th>
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Plant Number(s):
None

Product Code(s):
420200, 420279 CAN

*** END OF DOCUMENT ***