1. Identification

Product identifier  Roll-it-on (RIO) Conditioner
Other means of identification  None.
Recommended use  Solvent.
Recommended restrictions  None known.

Manufacturer/Importer/Supplier/Distributor information

Company name  Diagraph Marking & Coding
Address  5307 Meadowland Parkway, Marion IL, 62959 USA
Telephone  800-521-3047
E-mail  msds@diagraphmsp.com
Contact person  Customer Service
Emergency phone number  Infotrac 800-535-5053 US only
                        +1-352-323-3500 International

2. Hazard(s) identification

Physical hazards  Flammable liquids  Category 3
Health hazards  Serious eye damage/eye irritation  Category 2
Specific target organ toxicity, single exposure  Category 3 respiratory tract irritation
OSHA defined hazards  Not classified.

Label elements

Signal word  Warning
Hazard statement  Flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement

  Prevention  Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

  Response  If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use water fog, alcohol resistant foam, dry chemical powder, carbon dioxide to extinguish.

Storage  Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
Disposal  Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)  None known.
Supplemental information  None.

3. Composition/information on ingredients

Mixtures
Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information: Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media: Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: Flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage

Precautions for safe handling
Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store between 35°F (2°C) and 120°F (49°C). Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diacetone alcohol (CAS 123-42-2)</td>
<td>PEL</td>
<td></td>
<td>240 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diacetone alcohol (CAS 123-42-2)</td>
<td>TWA</td>
<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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<tr>
<td>Diacetone alcohol (CAS 123-42-2)</td>
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<td></td>
<td>50 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear approved safety goggles. Wear face shield if there is risk of splashes.

Skin protection
Hand protection
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Skin protection
Other
Wear suitable protective clothing.

Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
Physical state
Liquid.
Form
Clear liquid.
Color
Clear.
Odor threshold: Not available.

pH: Not available.

Melting point/freezing point: -52.6 °F (-47 °C)

Initial boiling point and boiling range: 302 °F (150 °C)

Flash point: 132.8 °F (56.0 °C)

Evaporation rate: Not available.

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits:

- Explosive limit - lower (%): 1.4 % v/v
- Explosive limit - upper (%): 8.4 % v/v

Vapor pressure: 1.1 hPa /1 mmHg (20°C/ 68°F)

Vapor density: Not available.

Relative density: Not available.

Solubility(ies):

- Solubility (water): Completely miscible in water.

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

Auto-ignition temperature: 1148 °F (620 °C)

Decomposition temperature: Not available.

Viscosity: Not available.

Other information:

- Density: 0.93 - 0.94 g/cm³ (20°C/ 68°F)

10. Stability and reactivity

Reactivity:

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability:

Risk of ignition.

Possibility of hazardous reactions:

No dangerous reaction known under conditions of normal use.

Conditions to avoid:

Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials:


Hazardous decomposition products:

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure:

- Inhalation: May cause irritation to the respiratory system.
- Skin contact: Prolonged or repeated contact may dry skin and cause dermatitis.
- Eye contact: Causes serious eye irritation.
- Ingestion: May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects:

Acute toxicity: Not expected to be acutely toxic.

Skin corrosion/irritation: Prolonged or repeated contact may dry skin and cause dermatitis.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitization:

- Respiratory sensitization: Not a respiratory sensitizer.
- Skin sensitization: This product is not expected to cause skin sensitization.
Germ cell mutagenicity  
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity  
Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity  
Not listed.

NTP Report on Carcinogens  
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)  
Not regulated.

Reproductive toxicity  
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure  
May cause respiratory irritation.

Specific target organ toxicity - repeated exposure  
Not classified.

Aspiration hazard  
Not classified.

Chronic effects  
Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. The product contains organic solvents which may be absorbed into the body by skin contact and cause permanent damage to the nervous system, including the brain.

12. Ecological information

Ecotoxicity  
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability  
No data is available on the degradability of this product.

Bioaccumulative potential  
Partition coefficient n-octanol / water (log Kow)
Diacetone alcohol (CAS 123-42-2) -0.098

Mobility in soil  
The product is water soluble and may spread in water systems.

Other adverse effects  
None known.

13. Disposal considerations

Disposal instructions  
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations  
Dispose in accordance with all applicable regulations.

Hazardous waste code  
D001: Waste Flammable material with a flash point <140 F
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products  
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging  
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT  
UN number  UN1148
UN proper shipping name  Diacetone alcohol
Transport hazard class(es)  
Class 3
Subsidiary risk -
Label(s) 3
Packing group III
Environmental hazards  
Marine pollutant No
Special precautions for user  
Read safety instructions, SDS and emergency procedures before handling.
Special provisions  
B1, IB3, T2, TP1
Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

IATA
UN number UN1148
UN proper shipping name Diacetone alcohol
Transport hazard class(es)
- Class 3
- Subsidiary risk -
- Label(s) 3
Packing group III
Environmental hazards No
ERG Code 3L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number UN1148
UN proper shipping name DIACETONE ALCOHOL
Transport hazard class(es)
- Class 3
- Subsidiary risk -
Packing group III
Environmental hazards
- Marine pollutant No
- EmS F-E, S-D
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Not established.
Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information
US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
- CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.
- SARA 304 Emergency release notification Not regulated.
- Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".
- Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance
- Not listed.
- SARA 311/312 Hazardous chemical Yes
  - Classified hazard categories Flammable (gases, aerosols, liquids, or solids)
    Serious eye damage or eye irritation
    Specific target organ toxicity (single or repeated exposure)
- SARA 313 (TRI reporting) Not regulated.

Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.
Safe Drinking Water Act (SDWA)  
Not regulated.

US state regulations

US. Massachusetts RTK - Substance List
Diacetone alcohol (CAS 123-42-2)

US. New Jersey Worker and Community Right-to-Know Act
Diacetone alcohol (CAS 123-42-2)

US. Pennsylvania Worker and Community Right-to-Know Law
Diacetone alcohol (CAS 123-42-2)

US. Rhode Island RTK
Diacetone alcohol (CAS 123-42-2)

California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A “Yes” indicates this product complies with the inventory requirements administered by the governing country(s). A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 13-April-2015
Revision date 05-December-2018
Version # 02

HMIS® ratings
<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

NFPA ratings

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