Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

SDS # RD-0076-EU
Product Code 0776, 0779 Series
Product Name Solvent Free, Low VOC Construction Adhesive – Pro Formula

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Construction adhesive
Uses Advised Against No uses advised against

1.3. Details of the Supplier of the Safety Data Sheet

Supplier Red Devil, Inc.
Address 4175 Webb Street
City Pryor, Oklahoma
Postal Code 74361
Website www.reddevil.com

For further information, please contact

Contact Point Red Devil: 1-918-825-5744
Brandweerinformatiecentrum voor gevaarlijke stoffen, BIG Tel: +32 14 58 45 47
B-2440 Geel Fax: +32 14 58 35 16
Technische Schoolstraat 43A
Email mgabel@reddevil.com
For REACH641@big.be

1.4. Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
International 1-800-535-5053 (North America)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008
Acute aquatic toxicity Category 3

Classification according to 67/548/EEC
Full text of R-phrases: see section 16

Hazard symbols
Not dangerous
2.2. Label Elements

Hazard Statements
H402 - Harmful to aquatic life

2.3. Other Hazards

General Hazards
None known

### Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC No</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Classification according to 67/548/EEC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>Present</td>
<td>1317-65-3</td>
<td>&lt;50</td>
<td>-</td>
<td>Not classified</td>
<td>Not determined</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>Present</td>
<td>57-55-6</td>
<td>&lt;2</td>
<td>-</td>
<td>Not classified</td>
<td>Not determined</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>Present</td>
<td>7664-41-7</td>
<td>&lt;0.25</td>
<td>R10 T; R23 C; R34 N; R50</td>
<td>Acute Tox. 3 (H331) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Flam. Gas 2 (H221) Press. Gas</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Full text of R-phrases: see section 16

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

Additional Information
Calcium Carbonate: Inhalation of particulates unlikely due to product's physical state Substances without a classification are included because they have established occupational exposure limits

### Section 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

Eye Contact
Immediately flush with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention.

Skin Contact
Wash affected areas thoroughly with soap and water for at least 15 minutes. If irritation persists, seek medical attention. Take off contaminated clothing. Wash contaminated clothing before reuse.

Inhalation
Remove to fresh air. If breathing becomes difficult, call a physician.

Ingestion
Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a physician or poison control center immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms
Eyes may have symptoms of redness, itching, irritation and watering from overexposure. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing. Prolonged or repeated skin contact may result in dermatitis (red, dry skin).
4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians
Treat symptomatically. Dermatitis or other pre-existing skin conditions may be aggravated by overexposure to this product.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media
Carbon dioxide (CO2), Dry chemical, Foam. Water spray (fog). Use extinguishing agent suitable for type of surrounding fire.

Unsuitable Extinguishing Media
None known

5.2. Special Hazards Arising from the Substance or Mixture

None known

Hazardous Combustion Products
Carbon oxides. Nitrogen oxides (NOx).

5.3. Advice for Firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use water spray to cool exposed surfaces.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

For Emergency Responders
Restrict access to spill area.

6.2. Environmental Precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Containment
Gently cover spill with polypads.

Methods for Cleaning Up
Pick up and transfer to properly labeled containers. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Do not mix with wastes from other materials. Wash area with soap and water.

6.4. Reference to Other Sections
See Section 12: ECOLOGICAL INFORMATION.
Section 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling
Keep out of reach of children and pets. Do not take internally. Do not breathe vapors. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Open windows and doors to ensure cross-ventilation and fresh air during application and curing. Do not eat, drink or smoke when using this product. See section 6 of this SDS for clean up instructions.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Do not store at high temperatures. Protect from freezing. Store away from incompatible materials. To maximize shelf life, store at temperatures below 26°C (80°F).

7.3. Specific End Use(s)

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1317-65-3</td>
<td></td>
<td>STEL: 30 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 4 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td></td>
<td>STEL: 450 ppm</td>
<td>TWA: 150 ppm</td>
<td>TWA: 474 mg/m³</td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>57-55-6</td>
<td></td>
<td>STEL: 1422 mg/m³</td>
<td>TWA: 7 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>TWA 20 ppm</td>
<td>STEL: 35 ppm</td>
<td>TWA: 18 mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7664-41-7</td>
<td>TWA 14 mg/m³</td>
<td>STEL: 25 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL 36 mg/m³</td>
<td>TWA: 20 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Ammonium Hydroxide     | TWA 20 ppm     | STEL: 35 ppm  | TWA: 18 mg/m³ |       |         |
| 7664-41-7 ( <0.25 )    | TWA 14 mg/m³   | STEL: 25 ppm  |       |       |         |
|                        | STEL: 36 mg/m³ | TWA: 20 ppm   |       |       |         |

| Ammonium Hydroxide     | TWA 20 ppm     | STEL: 35 ppm  | TWA: 14 mg/m³ |       |         |
| 7664-41-7              | TWA 14 mg/m³   | STEL: 25 ppm  |       |       |         |
|                        | STEL: 36 mg/m³ | TWA: 20 ppm   |       |       |         |

<table>
<thead>
<tr>
<th>Component</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Hydroxide</td>
<td>TWA 20 ppm</td>
<td>STEL: 35 ppm</td>
<td>TWA: 14 mg/m³</td>
<td>TWA: 14 mg/m³</td>
<td>TWA: 20 ppm</td>
</tr>
<tr>
<td>7664-41-7 ( &lt;0.25 )</td>
<td>TWA 14 mg/m³</td>
<td>STEL: 25 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL: 36 mg/m³</td>
<td>TWA: 20 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Austria</th>
<th>Switzerland</th>
<th>Poland</th>
<th>Norway</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 10 ppm</td>
<td>TWA: 14 mg/m³</td>
<td>TWA: 4 mg/m³</td>
<td></td>
</tr>
<tr>
<td>1317-65-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>TWA: 14 mg/m³</td>
<td>STEL: 37.5 ppm</td>
<td>TWA: 18 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>57-55-6</td>
<td></td>
<td>STEL: 118.5 mg/m³</td>
<td>TWA: 79 mg/m³</td>
<td>TWA: 470 mg/m³</td>
<td>TWA: 10 mg/m³</td>
</tr>
</tbody>
</table>

| Ammonium Hydroxide     | STEL: 40 ppm  | STEL: 28 mg/m³ | TWA: 25 ppm | TWA: 20 ppm | TWA: 20 ppm |
| 7664-41-7              | STEL: 14 mg/m³| STEL: 14 mg/m³ | TWA: 18 mg/m³| TWA: 14 mg/m³|         |
|                        | STEL: 37.5 ppm| STEL: 37.5 ppm | TWA: 27 mg/m³| TWA: 27 mg/m³|         |
8.2. Exposure Controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Personal Protective Equipment

Eye/Face Protection Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.

Hand Protection Chemical resistant, impermeable gloves. Use triple gloves for spill response.

Skin and Body Protection Use protection appropriate for task (e.g. : lab coat, coveralls, Tyvek suit).

Respiratory Protection If mists or sprays are created, use appropriate respiratory protection. When oxygen levels are below 19.5%, use full-facepiece pressure demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Paste</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Off-white paste</td>
<td>Odor</td>
<td>Mild acrylic</td>
</tr>
<tr>
<td>Color</td>
<td>Off-white</td>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>7-10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>&lt; 0 °C / &lt;32 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>99-104 °C / 210-220 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 93 °C / &gt; 200 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than n-Butyl Acetate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not established</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Heavier than air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative Density (Specific Gravity)</td>
<td>~1.0-1.50</td>
<td>@ 25 °C (77 °F)</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Unknown</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not an explosive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not an oxidizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>&lt;0.5%/wt</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9.2. Other Information

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive under normal conditions

10.2. Chemical Stability

Stable under normal conditions.

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.
10.3. Possibility of Hazardous Reactions

Hazardous Polymerization
Hazardous polymerization does not occur.

Possibility of Hazardous Reactions
None under normal processing.

10.4. Conditions to Avoid
Contact with incompatible materials. Extreme temperatures.

10.5. Incompatible Materials
Strong bases. Oxidizing agents.

10.6. Hazardous Decomposition Products
Carbon oxides. Nitrogen oxides (NOx).

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity

Product Information
Product does not present an acute toxicity hazard based on known or supplied information.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>= 20000 mg/kg (Rat)</td>
<td>= 20800 mg/kg (Rabbit)</td>
<td></td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>= 350 mg/kg (Rat)</td>
<td></td>
<td>= 5.1 mg/L (Rat) 1 h = 2000 ppm (Rat) 4 h</td>
</tr>
</tbody>
</table>

Carcinogenicity
Trace residual Formaldehyde present in base emulsion viewed as possible cancer hazard.

Symptoms
Please see section 4 of this SDS for symptoms.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>19000: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 static 1000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static</td>
<td>10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td></td>
<td>0.44: 96 h Cyprinus carpio mg/L LC50 0.26 - 4.6: 96 h Lepomis macrochirus mg/L LC50 1.17: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.73 - 2.35: 96 h Pimephales promelas mg/L LC50 5.9: 96 h Pimephales promelas mg/L LC50 static 1.5: 96 h Poecilia reticulata mg/L LC50 1.19: 96 h Poecilia reticulata mg/L LC50 static</td>
<td>25.4: 48 h Daphnia magna mg/L LC50</td>
</tr>
</tbody>
</table>

12.2. Persistence and Degradability
Not tested for persistence & biodegradability.
12.3. Bioaccumulative Potential
Not tested for bio-accumulation potential.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Hydroxide</td>
<td>-1.14</td>
</tr>
</tbody>
</table>

12.4. Mobility in Soil
Mobility
Not tested for mobility in soil.

12.5. Results of PBT and vPvB Assessment
Not determined.

12.6. Other Adverse Effects
Not determined.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste from Residues / Unused Products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

IMDG
14.1 UN/ID No
Not regulated
14.2
14.3
14.4
14.5
14.6
14.7

RID
14.1 UN/ID No
Not regulated
14.2
14.3
14.4
14.5
14.6

ADR
14.1 UN/ID No
Not regulated
14.2
14.3
14.4
14.5
14.6

ICAO (air)
14.1 UN/ID No
Not regulated
14.2
14.3
14.4
14.5
14.6
Section 15: REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>French RG number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>RG 84</td>
</tr>
</tbody>
</table>

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

International Inventories

- TSCA
- EINECS/ELINCS
- DSL/NDSL Listed
- PICCS
- ENCS
- IECSC
- AICS
- KECL

Legend
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
Full text of R-phrases referred to under sections 2 and 3
R34 - Causes burns
R50 - Very toxic to aquatic organisms
R10 - Flammable
R23 - Toxic by inhalation

Classification procedure
Calculation method

Issue Date 04-Apr-2013
Revision Date 01-Oct-2017
Revision Note Not applicable.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet