SAFETY DATA SHEET

Issue Date 04-Apr-2013 **Revision Date** 01-Oct-2017 **0**

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

Only Representative
Brandweerinformatiecentrum voor
gevaarlijke stoffen, BIG
Technische Schoolstraat 43A
B-2440 Geel

Supplier
Red Devil, Inc.
4175 Webb Street
Pryor, Oklahoma 74361
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
Fax: +32 14 58 35 16
Email Address mgabel@reddevil.com
REACH641@big.be

1.4. Emergency Telephone Number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (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

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

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

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Calcium Carbonate 1317-65-3		STEL: 30 mg/m^3 STEL: 12 mg/m^3 TWA: 10 mg/m^3 TWA: 4 mg/m^3			
Propylene Glycol 57-55-6		STEL: 450 ppm STEL: 1422 mg/m^3 STEL: 30 mg/m^3 TWA: 150 ppm TWA: 474 mg/m^3 TWA: 10 mg/m^3			
Ammonium Hydroxide 7664-41-7	TWA 20 ppm TWA 14 mg/m^3 STEL 50 ppm STEL 36 mg/m^3	STEL: 35 ppm STEL: 25 mg/m^3 TWA: 25 ppm TWA: 18 mg/m^3	TWA: 10 ppm TWA: 7 mg/m^3 STEL: 20 ppm STEL: 14 mg/m^3	STEL: 50 ppm STEL: 36 mg/m^3 TWA: 20 ppm TWA: 14 mg/m^3	TWA: 20 ppm TWA: 14 mg/m^3 Ceiling / Peak: 40 ppm Ceiling / Peak: 28 mg/m^3

Component	Italy	Portugal	Netherlands	Finland	Denmark
Ammonium Hydroxide 7664-41-7 (<0.25)	TWA: 20 ppm TWA: 14 mg/m^3 STEL: 50 ppm STEL: 36 mg/m^3	STEL: 35 ppm TWA: 25 ppm	STEL: 36 mg/m^3 TWA: 14 mg/m^3	TWA: 20 ppm TWA: 14 mg/m^3 STEL: 50 ppm STEL: 36 mg/m^3	TWA: 20 ppm TWA: 14 mg/m^3

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Calcium Carbonate 1317-65-3		TWA: 3 mg/m^3			TWA: 10 mg/m^3 TWA: 4 mg/m^3
Propylene Glycol 57-55-6				TWA: 25 ppm TWA: 79 mg/m^3 STEL: 37.5 ppm STEL: 118.5 mg/m^3	TWA: 150 ppm TWA: 470 mg/m^3 TWA: 10 mg/m^3
Ammonium Hydroxide 7664-41-7	STEL 50 ppm STEL 36 mg/m^3 TWA: 20 ppm TWA: 14 mg/m^3	STEL: 40 ppm STEL: 28 mg/m^3 TWA: 20 ppm TWA: 14 mg/m^3	STEL: 28 mg/m^3 TWA: 14 mg/m^3	TWA: 25 ppm TWA: 18 mg/m^3 STEL: 37.5 ppm STEL: 27 mg/m^3	TWA: 20 ppm TWA: 14 mg/m^3 STEL: 50 ppm STEL: 36 mg/m^3

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

Physical State	Paste		
Appearance	Off-white paste	**Odor**	Mild acrylic
Color	Off-white	**Odor Threshold**	Not determined

Property	**Values**	**Remarks • Method**
pH	7-10	
Melting Point/Freezing Point	< 0 °C / <32 °F	
Boiling Point/Boiling Range	99-104 °C / 210-220 °F	
Flash Point	> 93 °C / > 200 °F	
Evaporation Rate	Slower than n-Butyl Acetate	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Unknown	
Lower Flammability Limit	Unknown	
Vapor Pressure	Not established	
Vapor Density	Heavier than air	
Relative Density (Specific Gravity)	~1.0-1.50	@ 25 °C (77 °F)
Water Solubility	Soluble in water	
Solubility(ies)	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Unknown	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not an oxidizer	

9.2. Other Information

VOC Content (%) <0.5%/wt

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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	
Ammonium Hydroxide	= 350 mg/kg (Rat)		= 5.1 mg/L (Rat) 1 h = 2000 ppm (Rat) 4 h

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propylene Glycol	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	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	10000: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50 Static
Ammonium Hydroxide		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	25.4: 48 h Daphnia magna mg/L LC50

12.2. Persistence and Degradability
Not tested for persistence & biodegradability.

12.3. Bioaccumulative Potential

Not tested for bio-accumulation potential.

Chemical Name	Partition Coefficient
Ammonium Hydroxide	-1.14

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

IATA

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

Chemical Name	French RG number	Title
Propylene Glycol 57-55-6	RG 84	

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

Section 16: OTHER INFORMATION

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