

Issue Date 06-Feb-2015

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Version 2

1. IDENTIFICATION

Product Identifier

Product Name United 198 PERMA-FLEX

Other means of identification

SDS # UNITED-198

Recommended use of the chemical and restrictions on use

Recommended Use Sealant and Adhesive –Black, Clear, Red, White

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc.
320 37th Avenue
St. Charles, IL 60174
www.unitedlabsinc.com
www.unitedlabsinc.ca

Emergency Telephone Number

Company Phone Number 800-323-2594 (to reorder)
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

| | |
|-------------------------------|------------|
| Serious eye damage/Irritation | Category 2 |
| Skin Corrosion/irritation | Category 2 |

Label elements

Signal word WARNING

Hazard statements

Contains gas under pressure: may explode if heated.
Causes serious eye irritation.
Causes skin irritation.



Appearance Gel that cures to a synthetic rubber available in black, clear, red, and white.

Physical State Gel

Odor Acetic Acid Scent

Emergency Overview

Precautionary Statements- General

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Precautionary Statements - Prevention

Wear protective gloves.

Wear eye or face protection.

Wash hands thoroughly after handling.

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, state, and national regulations.

Precautionary Statements - Storage

Store according to local rules and regulations.

Store in a well-ventilated place.

Protect from sunlight.

Hazards not otherwise classified (HNOC)

None known

Other Information

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | Weight% |
|------------------------------|------------|---------|
| Triacetoxyethylsilane | 17689-77-9 | 1-5 |
| Methylsilanetriyl triacetate | 4253-34-3 | 1-5 |
| 1,1-Difluoroethane | 75-37-6 | 1-5 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. FIRST-AID MEASURES

First Aid Measures

| | |
|---------------------|---|
| Eye Contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention. |
| Skin Contact | Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Ingestion | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms and effects

| | |
|-----------------|---------------------------|
| Symptoms | No information available. |
|-----------------|---------------------------|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

Acute Health Hazard

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Irritating to mouth, throat and stomach.

Over-Exposure signs/symptoms

Eyes: Adverse symptoms may include: pain or irritation, watering or redness.

Skin: Adverse symptoms may include the following: irritation or redness.

Inhalation: None known

Ingestion: None known

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use an extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media None known

Specific Firefighting Procedure

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Usual Fire and Explosion Hazards

No specific fire or explosion hazard.

Hazardous Decomposition Products

Carbon dioxide, Carbon monoxide, Halogenated compounds, carbonyl halides, Metal oxide/oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up**Methods for Clean-Up**

Move containers from spill area. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Do not dry sweep. Dispose of via licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Waste Disposal

Dispose of in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE**Precautions for safe handling****Advice on Safe Handling**

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Protect from sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines****Appropriate engineering controls****Engineering Control**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or gases. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin and Body Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygiene Considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|--|-----------------------|-------------------|
| Physical State | Gel | Odor | Acetic Acid Scent |
| Appearance | Gel that cures to a synthetic rubber available in black, clear, red or white | Odor Threshold | Not determined |
| Color | Black, clear, red or white | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|------------------------------|-----------------------------|-------------------------|
| pH | Not determined | |
| Melting Point/Freezing Point | Not determined | Literary Reference |
| Boiling Point/Boiling Range | Not determined | |
| Flash Point | Closed cup: >100°C(>212°F) | |
| Evaporation Rate | Not determined | |
| Flammability (Solid, Gas) | Extremely flammable aerosol | |
| Upper Flammability Limits | Not determined | |
| Lower Flammability Limit | Not determined | |
| Vapor Pressure | Not determined | |
| Vapor Density | Not determined | |
| Relative Density | 1.007 | |
| Specific Gravity | Not determined | (1=Water) |
| Solids (%) | Not determined | |
| Water Solubility | Not determined | |
| Volatility including Water | Not determined | |
| Volatile Organic Compound | Not determined | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto ignition Temperature | Not determined | |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | Not determined | |
| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
| Dynamic Viscosity | Not determined | |
| Explosive Properties | Not determined | |
| Oxidizing Properties | Not determined | |
| VOC Content | <4% | |

10. STABILITY AND REACTIVITY

Reactivity

None known

Chemical Stability

This product is stable.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

None known

Incompatible Materials

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Product Information

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------------------|-----------------|-------------|-----------------|
| Methylsilanetriyl triacetate | 2062mg/kg (rat) | - | - |

Irritation/Corrosion

Silica: Eye-mild irritant-24hr 25mg (Rabbit)

Information on likely routes of exposure

Product Information

Eye Contact

Causes serious eye irritation. Adverse symptoms may include the following: pain or irritation, water or redness.

Skin Contact

Causes skin irritation. Adverse symptoms may include the following: irritation or redness.

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Irritating to mouth, throat and stomach.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

Persistence/Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

Note

This product exception requirements of Section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity-ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN1950 aerosols. Limited quantities require the limited quantity diamond mark on the carton after 12/31/2020 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

DOT

| | |
|-----------------------------|---------------------|
| Proper Shipping Name | Aerosols, Flammable |
| UN No | UN1950 |
| Hazard Class | 2.1 |
| Packaging Group | N/A |

IATA

| | |
|-----------------------------|---------------------|
| Proper Shipping Name | Aerosols, Flammable |
| UN No | UN1950 |
| Hazard Class | 2.1 |

IMDG

| | |
|-----------------------------|---------------------|
| Proper Shipping Name | Aerosols, Flammable |
| UN No | UN1950 |
| Hazard Class | 2.1 |

*Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage .

15. REGULATORY INFORMATION

US Federal Regulations

United States inventory(TSCA 8b)

All components are listed or exempt.

Clean Air Act (CAA) 112 regulated flammable substances

1,1- Difluoroethane

SARA 302/304

No products were found.

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | Yes |
| Reactive Hazard | No |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain Chemical(s) which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

US State Regulations

| Chemical Name | Massachusetts | New York | New Jersey | Pennsylvania |
|---------------------|---------------|----------|------------|--------------|
| Silicon dioxide | X | | | X |
| 1,1- Difluoroethane | X | | X | |

California Proposition 65

No products were found.

16. OTHER INFORMATION

| | | | | |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <u>NFPA</u> | Health Hazards | Flammability | Reactivity | Special Hazards |
| | 2 | 1 | 0 | - |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal Protection |
| | 1 | 1 | 0 | B |

| | |
|-----------------------|-------------|
| Issue Date | 06-Feb-2015 |
| Revision Date: | 01-Jul-2015 |
| Revision Note | New format |

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 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