



JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/11/2016

Supersedes:09/03/2015

Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ.
Product code : 6407

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Oil Charge

1.3. Details of the supplier of the safety data sheet

Technical Chemical Company
P.O. BOX 139
Cleburne, Texas 76033
T 817-645-6088

1.4. Emergency telephone number

Emergency number : CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Liquefied gas H280
Repr. 1B H360

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H280 - Contains gas under pressure; may explode if heated
H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US) :

P201 - Obtain special instructions
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P308+P313 - If exposed or concerned: Get medical advice/attention
P405 - Store locked up
P410+P403 - Protect from sunlight. Store in a well-ventilated place
P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
P251 - Pressurized container: Do not pierce or burn, even after use
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

2.3. Other hazards

Other hazards not contributing to the classification

: Contains gas under pressure; may explode if heated. Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Warning. May Cause frostbite in contact with skin. May Cause frostbite in contact with skin. (Liquid form can be ejected if the aerosol can is not held upright during use.) Warning. Asphyxiant in high concentrations. . This product dispenses liquid. Liquid may drip onto skin causing frostbite, blistering, red skin. WARNING. . None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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| Name | Product identifier | % | GHS-US classification |
|-------------------------------|----------------------|---------|--|
| 1,1,1,2-Tetrafluoroethane | (CAS No) 811-97-2 | 85 - 95 | Liquefied gas, H280 |
| Polyol Ester | (CAS No) Proprietary | 10 - 30 | Not classified |
| Ester | (CAS No) Proprietary | 1 - 5 | Not classified |
| Proprietary Inhibitor Package | (CAS No) Proprietary | < 1 | Not classified |
| Benzyl Butyl Phthalate | (CAS No) 85-68-7 | < 1 | Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

The exact percentage is a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Rinse with water. Take victim to a doctor if irritation persists. In case of frostbites: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Not applicable. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May damage fertility or the unborn child.
- Symptoms/injuries after inhalation : Coughing. Irritation of the respiratory tract. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Rapid respiration. Slight irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Blisters. May cause moderate irritation. Red skin.
- Symptoms/injuries after eye contact : Causes eye irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue.
- Symptoms/injuries after ingestion : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : NFPA Aerosol Level 1.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources.

6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dam up the liquid spill. Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up : Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Pressurized container: Do not pierce or burn, even after use.
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not handle until all safety precautions have been read and understood. Obtain special instructions.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply with applicable regulations.
Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.
Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls : Local exhaust ventilation, vent hoods . Ensure good ventilation of the work station.
Personal protective equipment : Gloves. Safety glasses. Avoid all unnecessary exposure.



Materials for protective clothing : neoprene.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Wear appropriate mask.
Consumer exposure controls : Avoid contact during pregnancy/while nursing.
Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Appearance : Liquid.
Color : Red.
Odor : Characteristic. Petroleum-like odour.
Odor threshold : No data available

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| | |
|---|-----------------------------|
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 0.965 @ 20 deg F (Liquid) |
| Solubility | : Insoluble in water. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion limits | : No data available |

9.2. Other information

| | |
|-------------|---------------------|
| VOC content | : > 95 % VOC Exempt |
| Gas group | : Liquefied gas |

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Toxic fume. . Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| 1,1,1,2-Tetrafluoroethane (811-97-2) | |
|---|---|
| LC50 inhalation rat (mg/l) | > 2000 mg/l/4h (Rat; Literature study) |
| LC50 inhalation rat (ppm) | > 359300 ppm/4h (Rat; Literature study) |
| Benzyl Butyl Phthalate (85-68-7) | |
| LD50 oral rat | 2330 mg/kg (Rat) |
| LD50 dermal rat | 6700 mg/kg (Rat) |
| LD50 dermal rabbit | > 10000 mg/kg (Rabbit) |
| LC50 inhalation rat (mg/l) | > 6.7 mg/l/4h (Rat) |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |

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| Benzyl Butyl Phthalate (85-68-7) | |
|---|--|
| IARC group | 3 |
| Reproductive toxicity | : May damage fertility or the unborn child. |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : Coughing. Irritation of the respiratory tract. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Rapid respiration. Slight irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. Blisters. May cause moderate irritation. Red skin. |
| Symptoms/injuries after eye contact | : Causes eye irritation. Irritation of the eye tissue. Inflammation/damage of the eye tissue. Redness of the eye tissue. |
| Symptoms/injuries after ingestion | : May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways. |

SECTION 12: Ecological information

12.1. Toxicity

| 1,1,1,2-Tetrafluoroethane (811-97-2) | |
|---|------------------------|
| LC50 fish 1 | 450 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 980 mg/l (EC50; 48 h) |
| Benzyl Butyl Phthalate (85-68-7) | |
| LC50 fish 2 | 0.82 mg/l (LC50; 96 h) |
| EC50 Daphnia 2 | 0.97 mg/l (EC50; 48 h) |

12.2. Persistence and degradability

| JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ. | |
|--|---|
| Persistence and degradability | Not established. |
| 1,1,1,2-Tetrafluoroethane (811-97-2) | |
| Persistence and degradability | Not readily biodegradable in water. |
| Polyol Ester (Proprietary) | |
| Persistence and degradability | Not established. |
| Ester (Proprietary) | |
| Persistence and degradability | Not established. |
| Proprietary Inhibitor Package (Proprietary) | |
| Persistence and degradability | Not established. |
| Benzyl Butyl Phthalate (85-68-7) | |
| Persistence and degradability | Readily biodegradable in water. Forming sediments in water. Biodegradability in soil: no data available. Adsorbs into the soil. |

12.3. Bioaccumulative potential

| JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ. | |
|--|--|
| Bioaccumulative potential | Not established. |
| 1,1,1,2-Tetrafluoroethane (811-97-2) | |
| BCF other aquatic organisms 1 | 5 - 58 (BCF) |
| Log Pow | 1.06 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Polyol Ester (Proprietary) | |
| Bioaccumulative potential | Not established. |
| Ester (Proprietary) | |
| Bioaccumulative potential | Not established. |
| Proprietary Inhibitor Package (Proprietary) | |
| Bioaccumulative potential | Not established. |
| Benzyl Butyl Phthalate (85-68-7) | |
| BCF fish 1 | 188 (BCF; 408 h) |
| BCF fish 2 | 663 (BCF; 504 h) |
| BCF other aquatic organisms 1 | 26 - 270 (BCF) |
| Log Pow | 3.57 - 5.8 |

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Benzyl Butyl Phthalate (85-68-7)

Bioaccumulative potential : Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

US DOT (ground): UN1078, Refrigerant gases, n.o.s., 2.2, Limited Quantity

ICAO/IATA (air): UN1078, Refrigerant gases, n.o.s., 2.2, Limited Quantity

IMO/IMDG (water): UN1078, Refrigerant gases, n.o.s. (1,1,1,2-Tetrafluoroethane), 2.2

Special Provisions: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter
DOT-SP 11620: In accordance with this special permit, the product container is marked with DOT-SP 11620 instead of 2Q. This packaging is approved for shipping as a Consumer Commodity

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Refrigerant gases, n.o.s.

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas



DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter
DOT-SP 11620: In accordance with this special permit, the product container is marked with DOT-SP 11620 instead of 2Q. This packaging is approved for shipping as a Consumer Commodity

DOT Packaging Exceptions (49 CFR 173.xxx) : 306

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304

DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

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SECTION 15: Regulatory information

15.1. US Federal regulations

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| | |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard Sudden release of pressure hazard |
|-------------------------------------|---|

1,1,1,2-Tetrafluoroethane (811-97-2)

| | |
|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| SARA Section 311/312 Hazard Classes | Sudden release of pressure hazard Immediate (acute) health hazard |

Polyol Ester (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ.

| | |
|----------------------|--------------------------|
| WHMIS Classification | Class A - Compressed Gas |
|----------------------|--------------------------|

1,1,1,2-Tetrafluoroethane (811-97-2)

| | |
|----------------------|--------------------------|
| WHMIS Classification | Class A - Compressed Gas |
|----------------------|--------------------------|

Polyol Ester (Proprietary)

| | |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

EU-Regulations

Polyol Ester (Proprietary)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Polyol Ester (Proprietary)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

15.3. US State regulations

JOHNSEN'S FREEZE PLUS WITH HOSE & GAUGE ASSEMBLY 18 OZ.

| | |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |
| State or local regulations | U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) |

1,1,1,2-Tetrafluoroethane (811-97-2)

| | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No | No | No | No | |

Polyol Ester (Proprietary)

| | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No | No | No | No | |

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| Ester (Proprietary) | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No | No | No | No | |

| Proprietary Inhibitor Package (Proprietary) | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No | No | No | No | |

| Benzyl Butyl Phthalate (85-68-7) | | | | |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
| No | Yes | Yes | Yes | |

| Benzyl Butyl Phthalate (85-68-7) | | | | |
|---|--|--|--|--|
| State or local regulations | | | | |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) | | | | |

SECTION 16: Other information

Indication of changes : Revision - See : *

Other information : None.

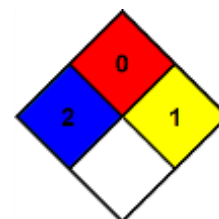
Full text of H-phrases:

| | |
|------|--|
| H280 | Contains gas under pressure; may explode if heated |
| H360 | May damage fertility or the unborn child |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard

Physical : 1 Slight Hazard

Personal Protection : B

SDS US (GHS HazCom 2012) - TCC

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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