

**WEISS COSMOFEN PLUS - PVC ADHESIVE**

MSDS Revision Date (dd/mm/yyyy): 24/02/2010

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**MATERIAL SAFETY DATA SHEET****SECTION 1 - IDENTIFICATION**

**Product identifier** : **WEISS COSMOFEN PLUS - PVC ADHESIVE**

**Product Code(s)** : 9-C9000-XX-0-7

**Product Use** : PVC adhesive.

**Chemical Family** : Mixture.

**Supplier's name and address:**  
**Ferco Ferrures de bâtiment**  
2000, rue Berlier  
Laval, QC, Canada  
H7L 4S4

**Manufacturer's name and address:**  
Refer to Supplier

**Information Telephone #** : (514) 973-1437

**24 Hr. Emergency Tel #** : Not available.

**SECTION 2 - HAZARDS IDENTIFICATION**

**Classification** : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:  
Class B2 (Flammable Liquids);  
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);  
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:  
Flammable liquid;  
Acute Health Hazard;  
Chronic Health Hazard.

**Emergency Overview** : Clear, colourless liquid. Characteristic odour.  
DANGER! Extremely flammable. Vapour is heavier than air and will collect in low-lying places. Vapour may cause flash fire! May be harmful if inhaled or swallowed. May cause nausea, vomiting, headache and other central nervous system effects. May cause respiratory irritation. Causes eye irritation. Prolonged or repeated skin contact may cause drying and irritation. Prolonged or repeated overexposure could cause disorders of the nervous system, liver and kidneys. Contains material which may cause cancer, based on animal data.

**POTENTIAL HEALTH EFFECTS:****Signs and symptoms of short-term (acute) exposure**

*Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

*Skin* : May cause mild skin irritation. Product may be absorbed.

*Eyes* : May cause severe eye irritation.

*Ingestion* : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.

**Effects of long-term (chronic) exposure**

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.  
Prolonged overexposure may cause liver and kidney effects.

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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| <u>Ingredients</u> | <u>CAS #</u> | <u>Wt.%</u>    |
|--------------------|--------------|----------------|
| Tetrahydrofuran    | 109-99-9     | 60.00 - 100.00 |
| Acetone            | 67-64-1      | 5.00 - 10.00   |

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : Remove exposed person to fresh air immediately. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention.
- Skin contact** : Wash off immediately with soap and plenty of water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Remove contaminated clothing and shoes under running water. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention immediately.
- Ingestion** : Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Obtain medical attention immediately.
- Notes For Physician** : Treat symptomatically. This product is a CNS depressant.

**SECTION 5 - FIRE FIGHTING MEASURES**

**Fire hazards/conditions of flammability**

- : Flammable liquid and vapour. Vapours may form explosive mixture with air. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas. Vapours may cause flash fire. Product may float, and be re-ignited at the water's surface.

**Flammability classification (OSHA 29 CFR 1910.1200)**

- : Flammable Liquid Class 1B.

**Oxidizing properties**

- : None known.

**Explosion data: Sensitivity to mechanical impact / static discharge**

- : Not expected to be sensitive to mechanical impact. Product will accumulate static charge. Mixtures of vapour and air at concentrations in the flammable range may be ignited by a static discharge of sufficient energy.

**Suitable extinguishing media**

- : Dry chemical, carbon dioxide and foam. Water may be ineffective because it may not cool product below the flashpoint.

**Special fire-fighting procedures/equipment**

- : During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

**Hazardous combustion products**

- : Carbon oxides, formaldehyde and other irritating fumes and smoke.

**NFPA Rating**

- |                                                                                              |            |              |             |
|----------------------------------------------------------------------------------------------|------------|--------------|-------------|
| 0 - Minimal                                                                                  | 1 - Slight | 2 - Moderate | 3 - Serious |
| : <i>Health:</i> 2 <i>Flammability:</i> 3 <i>Instability:</i> 0 <i>Special Hazards:</i> None |            |              |             |

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. \_

**Environmental precautions**

- : Do not allow material to contaminate ground water system. Dispose of as special waste in compliance with local and national regulations.

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**Spill response/cleanup** : Ventilate area of release. Eliminate all ignition sources. Remove combustible materials. Stop the spill at source if it is safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials** : Do not use combustible absorbents, such as sawdust.

**Special spill response procedures**

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).  
US CERCLA Reportable quantity (RQ): Tetrahydrofuran (1000 lbs / 454 kg); Acetone (5000 lbs / 2270 kg).

**SECTION 7 - HANDLING AND STORAGE**

**Safe Handling procedures** : Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Do not use near welding operations, flames or hot surfaces. Inspect containers for leaks before handling. Label containers appropriately. Ensure adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Prevent buildup of vapours. Keep away from oxidizing agents and incompatibles. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Storage requirements** : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store out of direct sunlight. Do not store near any incompatible materials (see Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Keep container tightly closed. Storage facilities should be made of fire resistant materials. For large-scale storage, use a grounded, non-sparking ventilation system, approved explosion-proof equipment and intrinsically safe electrical systems. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

**Incompatible materials** : Avoid STRONG OXIDIZING AGENTS (e.g. Chlorides, Peroxides), CAUSTIC ALKALIES, REDUCING AGENTS (e.g. metal hydrides), etc.

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION**

| <u>Exposure Limits</u> |                  |                |                 |             |
|------------------------|------------------|----------------|-----------------|-------------|
| <u>Ingredients</u>     | <u>ACGIH TLV</u> |                | <u>OSHA PEL</u> |             |
|                        | <u>TWA</u>       | <u>STEL</u>    | <u>PEL</u>      | <u>STEL</u> |
| Tetrahydrofuran        | 50 ppm (skin)    | 100 ppm (skin) | 200 ppm         | N/Av        |
| Acetone                | 500 ppm          | 750 ppm        | 1000 ppm        | N/Av        |

**Ventilation and engineering measures**

: Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.

**Respiratory protection**

: Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended.

**Skin protection**

: Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

**Eye / face protection**

: Wear protective chemical safety goggles, or in splash environment, in combination with a face shield.

**Other protective equipment**

: An eyewash station and safety shower should be made available in the immediate working area.

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**General hygiene considerations:** Avoid contact with skin, eyes and clothing. Avoid breathing vapour or mist. Do not eat, drink, smoke or use cosmetics while working with this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Separate contaminated work clothes from street clothes.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                                               |                             |                                               |                            |
|-----------------------------------------------|-----------------------------|-----------------------------------------------|----------------------------|
| <b>Physical state</b>                         | : Liquid.                   | <b>Appearance</b>                             | : Clear colourless liquid. |
| <b>Odour</b>                                  | : characteristic            | <b>Odour threshold</b>                        | : N/Av                     |
| <b>pH</b>                                     | : N/Av                      |                                               |                            |
| <b>Boiling point</b>                          | : 55°C (131°F)              | <b>Specific gravity</b>                       | : 0.99                     |
| <b>Melting/Freezing point</b>                 | : N/Av                      | <b>Coefficient of water/oil distribution</b>  | : N/Av                     |
| <b>Vapour pressure (mmHg @ 20° C / 68° F)</b> | : 200 mbar @<br>20°C (68°F) | <b>Solubility in water</b>                    | : Not miscible.            |
| <b>Vapour density (Air = 1)</b>               | : > 1                       | <b>Evaporation rate (n-Butyl acetate = 1)</b> | : N/Av                     |
| <b>Volatile organic Compounds (VOC's)</b>     | : N/Av                      | <b>Volatiles (% by weight)</b>                | : 77                       |
| <b>Flash point</b>                            | : - 14°C (6.8°F)            |                                               |                            |
| <b>Flash point Method</b>                     | : closed cup                | <b>Auto-ignition temperature</b>              | : 212°C (414°F)            |
| <b>Lower flammable limit (% by vol.)</b>      | : 1.5                       | <b>Upper flammable limit (% by vol.)</b>      | : 12.0                     |
| <b>Flame Projection Length</b>                | : N/Av                      | <b>Flashback observed</b>                     | : N/Av                     |

**Section 10: Stability And Reactivity**

|                                               |                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability and reactivity</b>               | : Stable under the recommended storage and handling conditions prescribed. After prolonged storage, may release explosive peroxides in the presence of air. Exposure to light may accelerate peroxide formation. Product may form carbon monoxide on standing in direct sunlight. |
| <b>Hazardous polymerization</b>               | : Hazardous polymerisation does not occur.                                                                                                                                                                                                                                        |
| <b>Conditions to avoid</b>                    | : Avoid heat, open flames, sparks, static electricity and electrical equipment. Keep away from direct sunlight.                                                                                                                                                                   |
| <b>Materials To Avoid And Incompatibility</b> | : See Section 7 (Handling and Storage) for further details.                                                                                                                                                                                                                       |
| <b>Hazardous decomposition products</b>       | : Explosive peroxides. Refer to Section 5 for additional 'Hazardous combustion products'.                                                                                                                                                                                         |

**SECTION 11 - TOXICOLOGICAL INFORMATION**

|                           |                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Target organs</b>      | : Eyes, skin, respiratory system, digestive system, central nervous system.                                                             |
| <b>Routes of exposure</b> | : <i>Inhalation:</i> YES <i>Skin Absorption:</i> YES <i>Skin &amp; Eyes:</i> YES <i>Ingestion:</i> YES                                  |
| <b>Toxicological data</b> | : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. |

| <b>Ingredients</b> | <b>LC<sub>50</sub>(4hr)</b> | <b>LD<sub>50</sub></b> |                         |
|--------------------|-----------------------------|------------------------|-------------------------|
|                    | <b>inh, rat</b>             | <b>(Oral, rat)</b>     | <b>(Rabbit, dermal)</b> |
| Tetrahydrofuran    | 18,200 ppm                  | 1650 mg/kg             | N/Av                    |
| Acetone            | 30,000 ppm                  | 5800 mg/kg             | > 16,000mg/kg           |

|                             |                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Carcinogenic status</b>  | : Tetrahydrofuran is classified as a confirmed animal carcinogen, with unknown relevance to humans by the ACGIH (Category A3). No other components are classified as carcinogenic by IARC, ACGIH, OSHA or NTP. |
| <b>Reproductive effects</b> | : None known.                                                                                                                                                                                                  |
| <b>Teratogenicity</b>       | : None known.                                                                                                                                                                                                  |
| <b>Mutagenicity</b>         | : None known.                                                                                                                                                                                                  |

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- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : Acetone has increased the liver toxicity of chemicals, such as carbon tetrachloride, chloroform, trichloroethylene, etc.
- Irritancy** : Mild skin irritant. Severe eye irritant.
- other important hazards** : CNS depression may result from extreme exposures.
- Conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.



**SECTION 12 - ECOLOGICAL INFORMATION**

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : No data is available on the product itself.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

- Handling for Disposal** : Store material for disposal as indicated in Handling and Storage (Section 7). Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**SECTION 14: TRANSPORT INFORMATION**

| Regulatory Information                  | UN Number                                                                                                                                                                                                                                              | Shipping Name | Class | Packing Group | Label                                                                                 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|---------------|---------------------------------------------------------------------------------------|
| TDG                                     | UN1133                                                                                                                                                                                                                                                 | ADHESIVES     | 3     | II            |  |
| <b>TDG Additional information</b>       | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption. |               |       |               |                                                                                       |
| 49CFR/DOT                               | UN1133                                                                                                                                                                                                                                                 | Adhesives     | 3     | II            |  |
| <b>49CFR/DOT Additional information</b> | May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. Refer to 49 CFR 173.150(b) and Special Provision 149.                                                         |               |       |               |                                                                                       |

**SECTION 15 - REGULATORY INFORMATION**

**US Federal Information:**

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Tetrahydrofuran (1000 lbs / 454 kg); Acetone (5000 lbs / 2270 kg).

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SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

**US State Right to Know Laws:**

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Tetrahydrofuran (CA, MA, MN, NJ, PA, RI); Acetone (CA, MA, MN, NJ, PA, RI).

**International Information:**

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): Mixture. All components of this product are on the Canadian DSL list.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.**

**SECTION 16 - OTHER INFORMATION**

|                    |   |                    |             |                        |              |                      |
|--------------------|---|--------------------|-------------|------------------------|--------------|----------------------|
| <b>HMIS Rating</b> | : | * - Chronic hazard | 0 - Minimal | 1 - Slight             | 2 - Moderate | 3 - Serious          |
|                    |   | <i>Health:</i> *2  |             | <i>Flammability:</i> 3 |              | <i>Reactivity:</i> 1 |

**Legend** :

- ACGIH: American Conference of Governmental Industrial Hygienists
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- DSL: Domestic Substances List
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PA: Pennsylvania
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RI: Rhode Island
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act

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STEL: Short Term Exposure Limit  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TSCA: Toxic Substance Control Act  
TWA: Time Weighted Average  
WHMIS: Workplace Hazardous Materials Identification System

**References**

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009.
- 2. International Agency for Research on Cancer Monographs, searched 2010.
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2010 (Chempendium, HSDB, RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists October 2006 version.
- 6. California Proposition 65 List February 5, 2010 version.

|                                                                                                                                                                                  |                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>Prepared for:</b><br/>Ferco Ferrures de bâtiment<br/>2000, Rue Berlier<br/>Laval, Qué (Canada), H7L 4S4<br/>Please direct all inquiries to Ferco Ferrures de bâtiment.</p> |   |
| <p><b>Prepared by:</b><br/>ICC The Compliance Center Inc.<br/><a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>                            |  |

**DISCLAIMER OF LIABILITY**

This Material Safety Data Sheet was prepared by ICC The Compliance Center Inc using information provided by / obtained from Ferco Ferrures de bâtiment and CCOHS' Web Information Service. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Ferco Ferrures de bâtiment expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc and Ferco Ferrures de bâtiment

**Preparation Date (dd/mm/yyyy)**

: 17/01/2007

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: 2

**Revision Information**

- : Sections 2 and 3, switched.
- (M)SDS sections updated:
  - 2. HAZARDS IDENTIFICATION;
  - 3. COMPOSITION/INFORMATION ON INGREDIENTS;
  - 5. FIRE-FIGHTING MEASURES;
  - 6. Accidental release measures;
  - 8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
  - 11. TOXICOLOGICAL INFORMATION;
  - 12. ECOLOGICAL INFORMATION;
  - 14. TRANSPORT INFORMATION;
  - 15. REGULATORY INFORMATION.

**END OF DOCUMENT**