

Methylfuel™M1™

# Material Safety Data Sheet

Product name

Validation date

In case of emergency

## Product and company identification

**Responsible name** Atrion Regulatory Services, Inc.

**Methylfuel™M1™**

**IMPORTER: VP RACING FUELS PTY LTD  
UNIT 24, 85 – 115 ALFRED RD, CHIPPING NORTON, NSW, 2170  
PH: 02 9723 4233**

**IN A EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE**

::

**1 .**

**Conforms to ANSI Z400.5-2004 Standard (United States, Canada, Mexico).**

CHEMTREC, U.S. : +1-800-424-9300 International: +1-703-527-3887

09/30/2008

VP Racing Fuels

7124 Richter Rd

Elmendorf, TX 78112

**Supplier/Manufacturer :**

**Material uses :** Fuel.

Dermal contact. Inhalation. Ingestion.

**Emergency overview**

## Hazards identification

**Routes of entry**

**Potential acute health effects**

Harmful by inhalation.

Irritating to eyes.

Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

May cause skin irritation.

**Eyes**

**Skin**

**Inhalation**

**Ingestion**

**Physical state** Liquid. [Clear.]

WARNING!

FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED OR SWALLOWED.  
CAUSES EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

Flammable liquid. Harmful by inhalation and if swallowed. Irritating to eyes. Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Contains material that can cause target organ damage. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

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⋮

**Odor** : Alcohol-like.

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

## 2 .

### **Potential chronic health effects**

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Chronic effects** : Contains material that can cause target organ damage.

**Fertility effects** : No known significant effects or critical hazards.

### **Over-exposure signs/symptoms**

**Ingestion** : No specific data.

**Skin** : No specific data.

**Inhalation** : No specific data.

**Target organs** : Contains material which causes damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

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## 2 . Hazards identification

See toxicological information (section 11)

### **Medical conditions**

#### **aggravated by overexposure**

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

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**Eyes** : Adverse symptoms may include the following:

pain or irritation

watering

redness

## 3 . Composition/information on ingredients

### **United States**

Methanol 67-56-1 >99.85%

**Name CAS number %**

### **Canada**

### **Mexico**

**Name CAS number %**

Methanol UN1230 6000 ppm 2 3 0 67-56-1 >99.85%

**IDLH H F R Special**

**Classification**

**UN number**

**Name CAS number %**

Methanol 67-56-1 >99.85%

## First aid measures

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Notes to physician** :

## 4 .

**Protection of first-aiders :** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Eye contact**

**Skin contact**

**Inhalation**

**Ingestion**

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:  
:

: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention.

Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention.

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

## **Fire-fighting measures**

**Extinguishing media**

**5 .**

Do not use water jet.

**Suitable :**

**Not suitable :**

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Flammability of the product :**

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## **5 . Fire-fighting measures**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters**

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

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**Special exposure hazards :**

**Hazardous thermal**

**decomposition products**

: Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.

Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

#### **Environmental precautions**

### **Accidental release measures**

: 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).

#### **Personal precautions :**

##### **Large spill :**

### **6 .**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

##### **Small spill :**

##### **Methods for cleaning up**

Put on appropriate personal protective equipment (see section 8). 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. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

### **Handling and storage**

#### **Handling :**

### **7 .**

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### **7 . Handling and storage**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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.

#### **Storage :**

## Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

### 8 .

#### United States

Methanol **ACGIH TLV (United States, 1/2007). Skin**

STEL: 328 mg/m<sup>3</sup> 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 262 mg/m<sup>3</sup> 8 hour(s).

TWA: 200 ppm 8 hour(s).

**NIOSH REL (United States, 12/2001). Skin**

STEL: 325 mg/m<sup>3</sup> 15 minute(s).

STEL: 250 ppm 15 minute(s).

TWA: 260 mg/m<sup>3</sup> 10 hour(s).

TWA: 200 ppm 10 hour(s).

**OSHA PEL (United States, 11/2006).**

TWA: 260 mg/m<sup>3</sup> 8 hour(s).

TWA: 200 ppm 8 hour(s).

#### Product name Exposure limits

Methanol **CA Alberta Provincial (Canada, 10/2006). Skin**

8 hrs OEL: 262 mg/m<sup>3</sup> 8 hour(s).

8 hrs OEL: 200 ppm 8 hour(s).

15 min OEL: 250 ppm 15 minute(s).

15 min OEL: 328 mg/m<sup>3</sup> 15 minute(s).

**CA British Columbia Provincial (Canada, 7/2007). Skin**

TWA: 200 ppm 8 hour(s).

STEL: 250 ppm 15 minute(s).

**CA Ontario Provincial (Canada, 3/2007). Skin**

TWAEV: 200 ppm 8 hour(s).

TWAEV: 260 mg/m<sup>3</sup> 8 hour(s).

STEV: 250 ppm 15 minute(s).

STEV: 325 mg/m<sup>3</sup> 15 minute(s).

**CA Quebec Provincial (Canada, 12/2006). Skin**

TWAEV: 200 ppm 8 hour(s).

TWAEV: 262 mg/m<sup>3</sup> 8 hour(s).

STEV: 250 ppm 15 minute(s).

STEV: 328 mg/m<sup>3</sup> 15 minute(s).

Methanol **NOM-010-STPS (Mexico, 9/2000). Skin**

LMPE-CT: 310 mg/m<sup>3</sup> 15 minute(s).

LMPE-CT: 250 ppm 15 minute(s).

LMPE-PPT: 260 mg/m<sup>3</sup> 8 hour(s).

LMPE-PPT: 200 ppm 8 hour(s).

#### Canada

#### Mexico

Product name Exposure limits

Product name Exposure limits

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## 8 . Exposure controls/personal protection

### Personal protection

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or

other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor

or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : 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.

**Recommended monitoring procedures**

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Environmental exposure controls**

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Eyes**

**Personal protective equipment (Pictograms)**

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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.

Disposable vinyl gloves.

A respirator is not needed under normal and intended conditions of product use.

Safety glasses.

:

**Skin**

**Respiratory**

:

:

:

**Hands**

**HMIS Code/Personal protective equipment**

: B

Liquid. [Clear.]

0.792 [Water]

12.9 kPa (97 mm Hg)

Alcohol-like.

2.1 (Butyl acetate. = 1)

## **Physical and chemical properties**

**Physical state**

**Relative density**

**Vapor pressure**

**Evaporation rate**

**Odor**

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**Flash point :** Open cup: 15.85°C (60.5°F) [Cleveland.]

## 9 .

**Specific gravity :** 0.7915 g/cm<sub>3</sub> [20°C (68°F)]

The product is stable.

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

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

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

## Stability and reactivity

### Stability

#### Conditions to avoid

#### Materials to avoid

#### Hazardous decomposition products

#### Hazardous polymerization

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## 10 .

Reactive or incompatible with the following materials: oxidizing materials.

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## 10 . Stability and reactivity

Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.

Flammable in the presence of the following materials or conditions: heat.

### Conditions of reactivity :

## 11 . Toxicological information

### Acute toxicity

### Carcinogenicity

### Classification

Methanol - - - None. - -

**Product/ingredient name ACGIH IARC EPA NIOSH NTP OSHA**

**Inhalation** Harmful by inhalation.

Irritating to eyes.

Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

May cause skin irritation.

### Eyes

### Skin

### Ingestion

:  
:  
:  
:  
:

### Product/ingredient name

Methanol Rabbit 15800 mg/kg LD50 Dermal -

Rat 5600 mg/kg LD50 Oral -

### Species Dose Result Exposure

## Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### 12 .

#### **Aquatic ecotoxicity**

**Other adverse effects** : No known significant effects or critical hazards.

Methanol - Daphnia 48 hours Acute LC50 3289 to 4395 mg/L

- Fish 96 hours Acute LC50 19 to 20 ml/L

- Crustaceans 48 hours Acute LC50 2500000 ug/L

#### **Product/ingredient name Test Species Exposure Result**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### **Waste disposal**

## Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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### 13 .

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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## 14 . Transport information

**AERG** : 131

**UN number Proper shipping name**

**Classes PG\* Label Additional information**

**Regulatory information**

**DOT Classification**

(Domestic and nonbulk packaging.)

(Bulk)

**DOT Classification** UN1230 METHANOL 3 II

**Limited quantity**

Yes.

**Packing Instructions:**

**Passenger aircraft**

Quantity limitation: 1 L

**Cargo aircraft**

Quantity limitation: 60 L

**Special provisions**

IB2, T7, TP2

**Remarks**

**Reportable quantity :**

> 5000 lbs

**Special provisions**

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-

**IMDG Class -**

**Mexico**

**Classification**

**TDG Classification** UN1230 METHANOL 3 II

<sup>6</sup> UN1230 METHANOL 3 (6.1) II

UN1230 METHANOL 3 II

UN1230 METHANOL 3 II

**Limited quantity**

Yes.

**Packing Instructions:**

**Passenger aircraft**

Quantity limitation: 1 L

**Cargo aircraft**

Quantity limitation: 60 L

**Special provisions**

IB2, T7, TP2

**Remarks**

**Reportable quantity :**

> 5000 lbs

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## 14 . Transport information

PG\* : Packing group

**Passenger and Cargo**

**Aircraft Quantity**

limitation: 1 L

**Cargo Aircraft Only**

Quantity limitation: 60 L

**Limited Quantities -**

**Passenger Aircraft**

Quantity limitation: 1 L

<sup>6</sup> **IATA-DGR Class** UN1230 METHANOL 3 (6.1) II

Flammable liquid

Toxic material

Irritating material

Target organ effects

**HCS Classification**

## Regulatory information

**U.S. Federal regulations**

**Connecticut Carcinogen Reporting:** None of the components are listed.

**Connecticut Hazardous Material Survey:** None of the components are listed.

**Florida substances:** None of the components are listed.

**Illinois Chemical Safety Act:** None of the components are listed.

**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.

**Louisiana Reporting:** None of the components are listed.

**Louisiana Spill:** None of the components are listed.

**Massachusetts Spill:** None of the components are listed.

**Massachusetts Substances:** The following components are listed: Methanol

**Michigan Critical Material:** None of the components are listed.

**Minnesota Hazardous Substances:** None of the components are listed.

**New Jersey Hazardous Substances:** The following components are listed: Methanol

**New Jersey Spill:** None of the components are listed.

**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

**New York Acutely Hazardous Substances:** The following components are listed:

Methanol

**New York Toxic Chemical Release Reporting:** None of the components are listed.

**Pennsylvania RTK Hazardous Substances:** The following components are listed:

**United States inventory (TSCA 8b):** All components are listed or exempted.

**Clean Water Act (CWA) 307:** No products were found.

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

#### **State regulations**

**SARA 302/304/311/312 extremely hazardous substances:** No products were found.

**SARA 302/304 emergency planning and notification:** No products were found.

**SARA 302/304/311/312 hazardous chemicals:** Methanol

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**

Methanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

:

:

#### **SARA 313**

:

#### **United States**

##### **Product name CAS number Concentration**

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall

include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

## **15 .**

Methanol 67-56-1 60 - 100

Methanol 67-56-1 60 - 100

#### **Form R - Reporting**

#### **requirements**

#### **Supplier notification**

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## **15 . Regulatory information**

Methanol

**Rhode Island Hazardous Substances:** None of the components are listed.

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause birth defects ( or other

reproductive harm). Avoid breathing exhaust fumes and vapors. Do not use products in an indoor facility or in any facility

without adequate ventilation.

**CEPA Toxic substances:** None of the components are listed.

**Canadian ARET:** None of the components are listed.

**Canadian NPRI:** The following components are listed: Methanol

**Alberta Designated Substances:** None of the components are listed.

**Ontario Designated Substances:** None of the components are listed.

**Quebec Designated Substances:** None of the components are listed.

**WHMIS (Canada)** Class B-2: Flammable liquid

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2A: Material causing other toxic effects (Very toxic).

Class D-2B: Material causing other toxic effects (Toxic).

### **International regulations**

#### **International lists**

:

:

**Canada**

**Mexico**

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**Health** 2 0

**Flammability**

**Reactivity**

**Special**

**Classification :**

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and**

**the MSDS contains all the information required by the Controlled Products Regulations.**

**Canadian lists :**

**California Prop. 65**

**Canada inventory : Canada inventory:** All components are listed or exempted.

This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

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## **Other information**

**References**

**Hazardous Material**

**Information System (U.S.A.)**

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**National Fire Protection**

**Association (U.S.A.)**

**Health**

**Special**

**Instability**

**Flammability**

FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.

**Label requirements :**

:

:

:

**16 .**

**The customer is responsible for determining the PPE code for this material.**

4- Extreme

3- Serious

2- Moderate

1- Slight  
0- Minimal  
See section 8 for more detailed  
information on personal protection.  
HAZARD RATINGS

\* 2

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**Personal protection**

**Date of issue**

**Date of previous issue**

**Version :**

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09/30/2008

07/27/2007

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**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named**

**supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the**

**information contained herein. Final determination of suitability of any material is the sole responsibility of the user.**

**All materials may present unknown hazards and should be used with caution. Although certain hazards are**

**described herein, we cannot guarantee that these are the only hazards that exist.**

ANSI Z400.5, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. -

29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous

Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2.

Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient

Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules,

Clear Language version 2005. - Official Mexican Standards NOM-018-STPS-2000 and

NOM-004-SCT2-1994.

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