



## Section 2. Hazards identification

**Hazard pictograms** : Cleaner - Dust Remover



Methyl Alcohol 99.8 PCT Purity



**Signal word** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Warning  
Danger

**Hazard statements** :  Cleaner - Dust Remover

H280 - Contains gas under pressure; may explode if heated.  
H225 - Highly flammable liquid and vapor.  
H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H360 - May damage the unborn child.  
H370 - Causes damage to organs. (central nervous system (CNS), optic nerve)  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

Methyl Alcohol 99.8 PCT Purity

### Precautionary statements

**Prevention** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Not applicable.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P233 - Keep container tightly closed.  
P271 - Use only outdoors or in a well-ventilated area.  
P260 - Do not breathe vapor.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.

**Response** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Not applicable.  
P307 + P311 - IF EXPOSED: Call a POISON CENTER or physician.  
P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.  
P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

## Section 2. Hazards identification

P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P410 - Protect from sunlight.

P403 - Store in a well-ventilated place.

P405 - Store locked up.

P403 - Store in a well-ventilated place.

P235 - Keep cool.

**Storage** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

**Disposal** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

**Supplemental label elements** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

None known.

None known.

### 2.3 Other hazards

**Hazards not otherwise classified** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

None known.

None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Substance  
Mixture

Ingredient name	%	CAS number
<b>Cleaner - Dust Remover</b> Norflurane	100	811-97-2
<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	≥90	67-56-1

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

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

## Section 4. First aid measures

<b>Eye contact</b>	: Cleaner - Dust Remover	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 10 minutes. Get medical attention if irritation occurs.
	Methyl Alcohol 99.8 PCT Purity	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 10 minutes. Get medical attention. If necessary, call a poison center or physician.
<b>Inhalation</b>	: Cleaner - Dust Remover	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.
	Methyl Alcohol 99.8 PCT Purity	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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.
<b>Skin contact</b>	: Cleaner - Dust Remover	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Methyl Alcohol 99.8 PCT Purity	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Cleaner - Dust Remover	As this product is a gas, refer to the inhalation section.
	Methyl Alcohol 99.8 PCT Purity	Get medical attention immediately. Call a poison center or physician. 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

## Section 4. First aid measures

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. 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.

### 4.2 Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Contact with rapidly expanding gas may cause burns or frostbite. Causes serious eye irritation.
<b>Inhalation</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Skin contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Contact with rapidly expanding gas may cause burns or frostbite. Toxic in contact with skin. Causes skin irritation.
<b>Ingestion</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	As this product is a gas, refer to the inhalation section. Toxic if swallowed. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations

## Section 4. First aid measures

<b>Ingestion</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
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### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	: Cleaner - Dust Remover  Methyl Alcohol 99.8 PCT Purity	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific treatment. No specific treatment.
<b>Protection of first-aiders</b>	: Cleaner - Dust Remover  Methyl Alcohol 99.8 PCT Purity	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  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.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Cleaner - Dust Remover  Methyl Alcohol 99.8 PCT Purity	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	None known. Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

<b>Specific hazards arising from the chemical</b>	: Cleaner - Dust Remover  Methyl Alcohol 99.8 PCT Purity	Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode. Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
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## Section 5. Fire-fighting measures

**Hazardous thermal decomposition products**

: Cleaner - Dust Remover

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
halogenated compounds

Methyl Alcohol 99.8 PCT Purity

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
Formaldehyde.

**5.3 Advice for firefighters**

**Special protective actions for fire-fighters**

: Cleaner - Dust Remover

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. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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.

Methyl Alcohol 99.8 PCT Purity

**Special protective equipment for fire-fighters**

: Cleaner - Dust Remover

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

Methyl Alcohol 99.8 PCT Purity

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

## Section 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

: Cleaner - Dust Remover

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Methyl Alcohol 99.8 PCT Purity

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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.



## Section 6. Accidental release measures

<p><b>For emergency responders</b> : Cleaner - Dust Remover</p> <p style="padding-left: 100px;">Methyl Alcohol 99.8 PCT Purity</p>	<p>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 non-emergency personnel". 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 non-emergency personnel".</p>
<p><b>6.2 Environmental precautions</b> : Cleaner - Dust Remover</p> <p style="padding-left: 100px;">Methyl Alcohol 99.8 PCT Purity</p>	<p>Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>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).</p>
<p><b>6.3 Methods and materials for containment and cleaning up</b></p> <p><b>Methods for cleaning up</b> : Cleaner - Dust Remover</p> <p style="padding-left: 100px;">Methyl Alcohol 99.8 PCT Purity</p>	<p>Immediately contact emergency personnel. Stop leak if without risk.</p> <p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p>

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

<p><b>Protective measures</b> : Cleaner - Dust Remover</p> <p style="padding-left: 100px;">Methyl Alcohol 99.8 PCT Purity</p>	<p>Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.</p> <p>Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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</p>
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## Section 7. Handling and storage

		<p>handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
<p><b>Advice on general occupational hygiene</b></p>	<p>: Cleaner - Dust Remover</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
	<p>Methyl Alcohol 99.8 PCT Purity</p>	<p>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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
<p><b>7.2 Conditions for safe storage, including any incompatibilities</b></p>	<p>: Cleaner - Dust Remover</p>	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.</p>
	<p>Methyl Alcohol 99.8 PCT Purity</p>	<p>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. Store locked up. 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. See Section 10 for incompatible materials before handling or use.</p>
<p><b>7.3 Specific end use(s)</b></p>		
<p><b>Recommendations</b></p>	<p>: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity</p>	<p>Industrial applications, Professional applications. Industrial applications, Professional applications.</p>
<p><b>Industrial sector specific solutions</b></p>	<p>: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity</p>	<p>Not applicable. Not applicable.</p>

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

## Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
<b>Cleaner - Dust Remover</b> Norflurane	<b>AIHA WEEL (United States, 10/2011).</b> TWA: 1000 ppm 8 hours. <b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 2.5 mg/m <sup>3</sup> 8 hours. Form: Dust <b>ACGIH TLV (United States, 3/2017).</b> TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 2.5 mg/m <sup>3</sup> , (as F) 8 hours.
<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	<b>ACGIH TLV (United States, 3/2017).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 262 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL 1989 (United States, 3/1989).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> <b>Absorbed through skin.</b> TWA: 200 ppm 10 hours. TWA: 260 mg/m <sup>3</sup> 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 6/2016).</b> TWA: 200 ppm 8 hours. TWA: 260 mg/m <sup>3</sup> 8 hours.

### 8.2 Exposure controls

#### Appropriate engineering controls

- : 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.

#### 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.

### Individual protection measures

#### 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.

## Section 8. Exposure controls/personal protection

- 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand 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.
- Body protection** : 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Gas. [Compressed gas. / Aerosol] Liquid. [Clear./Volatile.]
<b>Color</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Colorless.
<b>Odor</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Ethereal. [Slight] Alcohol-like. [Slight]
<b>Odor threshold</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Not available.
<b>pH</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Not available.
<b>Melting point</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	-101°C (-149.8°F) -98°C (-144.4°F)
<b>Boiling point</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	-26.5°C (-15.7°F) >65°C (>149°F)
<b>Flash point</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Closed cup: 12°C (53.6°F)
<b>Evaporation rate</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. 5 (butyl acetate = 1)
<b>Flammability (solid, gas)</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Lower: 6% Upper: 35.5%
<b>Vapor pressure</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	12.8 kPa (96 mm Hg) [room temperature] 13.3 kPa (100 mm Hg) [room temperature]

## Section 9. Physical and chemical properties

<b>Vapor density</b>	: Cleaner - Dust Remover	3.6 [Air = 1]
	Methyl Alcohol 99.8 PCT Purity	1.11 [Air = 1]
<b>Relative density</b>	: Cleaner - Dust Remover	1.21
	Methyl Alcohol 99.8 PCT Purity	Not available.
<b>Solubility</b>	: Cleaner - Dust Remover	Very slightly soluble in the following materials: cold water and hot water.
	Methyl Alcohol 99.8 PCT Purity	Easily soluble in the following materials: methanol and acetone. Soluble in the following materials: cold water and hot water. Partially soluble in the following materials: n-octanol.
<b>Partition coefficient: n-octanol/water</b>	: Cleaner - Dust Remover	1.06
	Methyl Alcohol 99.8 PCT Purity	Not available.
<b>Auto-ignition temperature</b>	: Cleaner - Dust Remover	>743°C (>1369.4°F)
	Methyl Alcohol 99.8 PCT Purity	Not available.
<b>Decomposition temperature</b>	: Cleaner - Dust Remover	Not available.
	Methyl Alcohol 99.8 PCT Purity	Not available.
<b>Viscosity</b>	: Cleaner - Dust Remover	Dynamic (room temperature): 0.204 mPa·s (0.204 cP)
	Methyl Alcohol 99.8 PCT Purity	Not available.

## Section 10. Stability and reactivity

<b>10.1 Reactivity</b>	: Cleaner - Dust Remover	No specific test data related to reactivity available for this product or its ingredients.
	Methyl Alcohol 99.8 PCT Purity	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: Cleaner - Dust Remover	The product is stable.
	Methyl Alcohol 99.8 PCT Purity	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Cleaner - Dust Remover	Under normal conditions of storage and use, hazardous reactions will not occur.
	Methyl Alcohol 99.8 PCT Purity	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Cleaner - Dust Remover	No specific data.
	Methyl Alcohol 99.8 PCT Purity	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. Do not allow vapor to accumulate in low or confined areas.
<b>10.5 Incompatible materials</b>	: Cleaner - Dust Remover	May react or be incompatible with oxidizing materials.
	Methyl Alcohol 99.8 PCT Purity	Reactive or incompatible with the following materials: oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: Cleaner - Dust Remover	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Methyl Alcohol 99.8 PCT Purity	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Methyl Alcohol 99.8 PCT Purity Methanol	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Methyl Alcohol 99.8 PCT Purity Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

#### Sensitization

Not available.

#### Mutagenicity

Conclusion/Summary : Not available.

#### Carcinogenicity

Conclusion/Summary : Not available.

#### Reproductive toxicity

Conclusion/Summary : Not available.

#### Teratogenicity

Conclusion/Summary : Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Methyl Alcohol 99.8 PCT Purity Methanol	Category 1	Not determined	central nervous system (CNS) and optic nerve
	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes of exposure : Cleaner - Dust Remover  
Methyl Alcohol 99.8 PCT Purity

Routes of entry anticipated: Inhalation.  
Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

## Section 11. Toxicological information

<b>Eye contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Contact with rapidly expanding gas may cause burns or frostbite. Causes serious eye irritation.
<b>Inhalation</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Skin contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Contact with rapidly expanding gas may cause burns or frostbite. Toxic in contact with skin. Causes skin irritation.
<b>Ingestion</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	As this product is a gas, refer to the inhalation section. Toxic if swallowed. Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Eye contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
<b>Skin contact</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
<b>Ingestion</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

## Section 11. Toxicological information

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. May damage the unborn child.
<b>Developmental effects</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
<b>Methyl Alcohol 99.8 PCT Purity</b>	
Oral	100.2 mg/kg
Dermal	300.6 mg/kg
Inhalation (vapors)	3.006 mg/l

<b>Other information</b>	: Cleaner - Dust Remover	Adverse symptoms may include the following: cardiovascular effects. pulmonary chronic lung disease. (high concentrations) Can cause central nervous system (CNS) depression. (high concentrations)
	Methyl Alcohol 99.8 PCT Purity	Adverse symptoms may include the following: blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage.

## Section 12. Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential



## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Cleaner - Dust Remover Norflurane	1.06	-	low
Methyl Alcohol 99.8 PCT Purity Methanol	-0.77	<10	low

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times 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 emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### United States - RCRA Toxic hazardous waste "U" List






Ingredient	CAS #	Status	Reference number
Methyl Alcohol 99.8 PCT Purity Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kits	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 	9 	9 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

### Additional information

#### DOT Classification

: **Reportable quantity** 10020 lbs / 4549.1 kg. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.

**Limited quantity** Yes.

**Packaging instruction** Exceptions: 161. Non-bulk: 161. Bulk: None.

**Quantity limitation** Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.

**Special provisions** 15

**Remarks** Requires Dangerous Goods BOL

#### TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).

**Passenger Carrying Road or Rail Index** 10

**Special provisions** 65, 141

#### Mexico Classification

: **Special provisions** 251, 340

#### IMDG

: **Emergency schedules** F-A, \_S-P\_

**Special provisions** 251, 340

#### IATA

: **Quantity limitation** Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

**Special provisions** A44, A163

#### Special precautions for user

: **Transport within user's premises:** 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.

#### Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

## Section 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

#### SARA 302/304

##### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

#### SARA 311/312

##### **Classification**

**Cleaner - Dust Remover**  
Methyl Alcohol 99.8 PCT Purity

GASES UNDER PRESSURE - Compressed gas  
FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 3  
ACUTE TOXICITY (dermal) - Category 3  
ACUTE TOXICITY (inhalation) - Category 3  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
TOXIC TO REPRODUCTION (Unborn child) - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

##### Composition/information on ingredients

Name	%	Classification
<b>Cleaner - Dust Remover</b> Norflurane	100	GASES UNDER PRESSURE - Compressed gas
<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	≥90	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### SARA 313

## Section 15. Regulatory information


	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	67-56-1	≥90
<b>Supplier notification</b>	<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	67-56-1	≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: METHANOL; METHYL ALCOHOL  
**New York** : The following components are listed: Methanol  
**New Jersey** : The following components are listed: FLUORIDES; METHYL ALCOHOL; METHANOL  
**Pennsylvania** : The following components are listed: METHANOL

### California Prop. 65

 **WARNING:** This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
<b>Methyl Alcohol 99.8 PCT Purity</b> Methanol	-	Yes.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.  
**Canada** : All components are listed or exempted.  
**China** : All components are listed or exempted.  
**Europe** : All components are listed or exempted.  
**Japan** : **Japan inventory (ENCS):** All components are listed or exempted.  
**Japan inventory (ISHL):** All components are listed or exempted.  
**Malaysia** : Not determined.  
**New Zealand** : All components are listed or exempted.  
**Philippines** : All components are listed or exempted.  
**Republic of Korea** : All components are listed or exempted.  
**Taiwan** : All components are listed or exempted.

## Section 15. Regulatory information

<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: Not determined.

## Section 16. Other information

### History

<b>Date of issue</b>	: 04/26/2018
<b>Date of previous issue</b>	: 10/12/2017
<b>Version</b>	: 7

### Procedure used to derive the classification

Classification	Justification
<input checked="" type="checkbox"/> <b>Cleaner - Dust Remover</b> GASES UNDER PRESSURE - Compressed gas  <b>Methyl Alcohol 99.8 PCT Purity</b> FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Expert judgment  On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Indicates information that has changed from previously issued version.

### Notice to reader

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