

SAFETY DATA SHEET



Optics Cleaning Kit, Part Number G2505-60527

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

1.1 Product identifier

Product name : Optics Cleaning Kit, Part Number G2505-60527
Part no. (chemical kit) : G2505-60527
Part no. : Cleaner - Dust Remover 8500-8400
Methyl Alcohol 99.8 PCT 8500-8397
Purity

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
Cleaner - Dust Remover Aerosol product
Methyl Alcohol 99.8 PCT Purity 40 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Cleaner - Dust Remover Mono-constituent substance
Methyl Alcohol 99.8 PCT Mixture
Purity

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

Cleaner - Dust Remover

H280 GASES UNDER PRESSURE - Compressed gas

Methyl Alcohol 99.8 PCT Purity

H225 FLAMMABLE LIQUIDS - Category 2
H301 ACUTE TOXICITY (oral) - Category 3
H311 ACUTE TOXICITY (dermal) - Category 3
H331 ACUTE TOXICITY (inhalation) - Category 3
H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

See Section 16 for the full text of the H statements declared above.





See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Date of issue/Date of revision : 26/04/2018

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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 Methyl Alcohol 99.8 PCT Purity | H280 - Contains gas under pressure; may explode if heated. H225 - Highly flammable liquid and vapour. H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs. |
| <u>Precautionary statements</u> | | |
| Prevention | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe vapour. |
| Response | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or physician. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| Storage | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | P410 - Protect from sunlight. P405 - Store locked up. |
| Disposal | : 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. |
| Hazardous ingredients | : Methyl Alcohol 99.8 PCT Purity | - methanol |
| Supplemental label elements | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. Not applicable. |
| <u>Special packaging requirements</u> | | |
| Tactile warning of danger | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. Not applicable. |

2.3 Other hazards

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SECTION 2: Hazards identification

Other hazards which do not result in classification : Cleaner - Dust Remover Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Methyl Alcohol 99.8 PCT Purity None known.

SECTION 3: Composition/information on ingredients

3.1 Substances : Cleaner - Dust Remover Mono-constituent substance
Methyl Alcohol 99.8 PCT Purity Mixture

| Product/ingredient name | Identifiers | % | Regulation (EC) No. 1272/2008 [CLP] | Type |
|---|--|-----|--|---------|
| Cleaner - Dust Remover Norflurane | EC: 212-377-0 CAS: 811-97-2 | 100 | Press. Gas (Comp.), H280 | [A] |
| Methyl Alcohol 99.8 PCT Purity Methanol | EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X | ≥90 | Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above. | [1] [2] |

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.

Type

- [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern
 [6] Additional disclosure due to company policy
 [A] Constituent
 [B] Impurity
 [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : 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.

Inhalation : Cleaner - Dust Remover 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 adverse health effects persist or are severe. If unconscious, place in

SECTION 4: First aid measures

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.

Skin contact

: 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.

Ingestion

: Cleaner - Dust Remover
Methyl Alcohol 99.8 PCT Purity
As this product is a gas, refer to the inhalation section. 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 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.

Protection of first-aiders

: Cleaner - Dust Remover
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.

Methyl Alcohol 99.8 PCT Purity
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.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Cleaner - Dust Remover
Contact with rapidly expanding gas may cause burns or frostbite.
Methyl Alcohol 99.8 PCT Purity
No known significant effects or critical hazards.

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SECTION 4: First aid measures

| | | |
|---------------------|--|--|
| Inhalation | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. Toxic if inhaled. |
| Skin contact | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Contact with rapidly expanding gas may cause burns or frostbite. Toxic in contact with skin. |
| Ingestion | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | As this product is a gas, refer to the inhalation section. Toxic if swallowed. |

Over-exposure signs/symptoms

| | | |
|---------------------|--|--|
| Eye contact | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No specific data. No specific data. |
| Inhalation | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No specific data. No specific data. |
| Skin contact | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No specific data. No specific data. |
| Ingestion | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No specific data. No specific data. |

4.3 Indication of any immediate medical attention and special treatment needed

| | | |
|----------------------------|--|--|
| Notes to physician | : 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. |
| Specific treatments | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No specific treatment. No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| | | |
|---------------------------------------|--|---|
| Suitable extinguishing media | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : 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

| | | |
|--|--|---|
| Hazards from the substance or mixture | : 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 vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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: Firefighting measures

| | | |
|--------------------------------------|--------------------------------|---|
| Hazardous combustion 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 precautions 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. |
| | Methyl Alcohol 99.8 PCT Purity | 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 | : 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |
| | 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

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 vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : Cleaner - Dust Remover | If specialised 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". |
| | Methyl Alcohol 99.8 PCT Purity | If specialised 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". |

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SECTION 6: Accidental release measures

6.2 Environmental precautions : Cleaner - Dust Remover 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).

Methyl Alcohol 99.8 PCT Purity Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Cleaner - Dust Remover Immediately contact emergency personnel. Stop leak if without risk.

Methyl Alcohol 99.8 PCT Purity 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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Cleaner - Dust Remover Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container.

Methyl Alcohol 99.8 PCT Purity Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Cleaner - Dust Remover 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.

Methyl Alcohol 99.8 PCT Purity 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

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SECTION 7: Handling and storage

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

| | | |
|----------------|--------------------------------|--|
| Storage | : Cleaner - Dust Remover | 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. |
| | Methyl Alcohol 99.8 PCT Purity | 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|--------------------------------|---------------------------------|-------------------------|
| Methyl Alcohol 99.8 PCT Purity | | |
| H2 | 50 | 200 |
| H3 | 50 | 200 |
| P5c | 5000 | 50000 |

7.3 Specific end use(s)

| | | |
|---|--|--|
| Recommendations | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Industrial applications, Professional applications. Industrial applications, Professional applications. |
| Industrial sector specific solutions | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not applicable. Not applicable. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|--|--|
| Cleaner - Dust Remover Norflurane | EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 4240 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. |
| Methyl Alcohol 99.8 PCT Purity Methanol | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |

SECTION 8: Exposure controls/personal protection

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. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

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

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.

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: safety glasses with side-shields.

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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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.

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SECTION 8: Exposure controls/personal protection

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | | |
|---|--|--|
| Physical state | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Gas. [Compressed gas. / Aerosol] Liquid. [Clear./Volatile.] |
| Colour | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Colourless. |
| Odour | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Ethereal. [Slight] Alcohol-like. [Slight] |
| Odour threshold | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Not available. |
| pH | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Not available. |
| Melting point/freezing point | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | -101°C -98°C |
| Initial boiling point and boiling range | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | -26.5°C >65°C |
| Flash point | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Closed cup: 12°C |
| Evaporation rate | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. 5 (butyl acetate = 1) |
| Flammability (solid, gas) | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Not applicable. |
| Upper/lower flammability or explosive limits | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Not available. Lower: 6% Upper: 35.5% |
| Vapour pressure | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | 12.8 kPa [room temperature] 13.3 kPa [room temperature] |
| Vapour density | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | 3.6 [Air = 1] 1.11 [Air = 1] |
| Relative density | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | 1.21 Not available. |

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SECTION 9: Physical and chemical properties

| | | |
|---|--------------------------------|---|
| Solubility(ies) | : 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. |
| Partition coefficient: n-octanol/water | : Cleaner - Dust Remover | 1.06 |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |
| Auto-ignition temperature | : Cleaner - Dust Remover | >743°C |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |
| Decomposition temperature | : Cleaner - Dust Remover | Not available. |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |
| Viscosity | : Cleaner - Dust Remover | Dynamic (room temperature): 0.204 mPa·s |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |
| Explosive properties | : Cleaner - Dust Remover | Not available. |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |
| Oxidising properties | : Cleaner - Dust Remover | Not available. |
| | Methyl Alcohol 99.8 PCT Purity | Not available. |

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

| | | |
|--|--------------------------------|---|
| 10.1 Reactivity | : 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. |
| 10.2 Chemical stability | : Cleaner - Dust Remover | The product is stable. |
| | Methyl Alcohol 99.8 PCT Purity | The product is stable. |
| 10.3 Possibility of hazardous reactions | : 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. |
| 10.4 Conditions to avoid | : Cleaner - Dust Remover | Do not allow gas to accumulate in low or confined areas. |
| | Methyl Alcohol 99.8 PCT Purity | Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas. |
| 10.5 Incompatible materials | : Cleaner - Dust Remover | May react or be incompatible with oxidising materials. |
| | Methyl Alcohol 99.8 PCT Purity | Reactive or incompatible with the following materials: oxidizing materials |

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products : 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 Vapour | Rat | 145000 ppm | 1 hours |
| | LC50 Inhalation Vapour | Rat | 64000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 15800 mg/kg | - |
| | LD50 Oral | Rat | 5600 mg/kg | - |

Acute toxicity estimates

| Route | ATE value |
|--|--|
| Methyl Alcohol 99.8 PCT Purity Oral Dermal Inhalation (vapours) | 100.2 mg/kg 300.6 mg/kg 3.006 mg/l |

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 | - |

Sensitiser

Conclusion/Summary : 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)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|----------------|
| Methyl Alcohol 99.8 PCT Purity Methanol | Category 1 | Not determined | Not determined |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

Information on likely routes of exposure : Cleaner - Dust Remover Routes of entry anticipated: Inhalation.
Methyl Alcohol 99.8 PCT Purity Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Cleaner - Dust Remover At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Methyl Alcohol 99.8 PCT Purity Toxic if inhaled.

Ingestion : Cleaner - Dust Remover As this product is a gas, refer to the inhalation section.
Methyl Alcohol 99.8 PCT Purity Toxic if swallowed.

Skin contact : Cleaner - Dust Remover Contact with rapidly expanding gas may cause burns or frostbite.
Methyl Alcohol 99.8 PCT Purity Toxic in contact with skin.

Eye contact : Cleaner - Dust Remover Contact with rapidly expanding gas may cause burns or frostbite.
Methyl Alcohol 99.8 PCT Purity No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Cleaner - Dust Remover No specific data.
Methyl Alcohol 99.8 PCT Purity No specific data.

Ingestion : Cleaner - Dust Remover No specific data.
Methyl Alcohol 99.8 PCT Purity No specific data.

Skin contact : Cleaner - Dust Remover No specific data.
Methyl Alcohol 99.8 PCT Purity No specific data.

Eye contact : Cleaner - Dust Remover No specific data.
Methyl Alcohol 99.8 PCT Purity No specific data.

Delayed and immediate effects as well as 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.

Potential delayed effects : Not available.

Potential chronic health effects

General : Cleaner - Dust Remover No known significant effects or critical hazards.
Methyl Alcohol 99.8 PCT Purity No known significant effects or critical hazards.

Carcinogenicity : Cleaner - Dust Remover No known significant effects or critical hazards.
Methyl Alcohol 99.8 PCT Purity No known significant effects or critical hazards.

Mutagenicity : Cleaner - Dust Remover No known significant effects or critical hazards.
Methyl Alcohol 99.8 PCT Purity No known significant effects or critical hazards.

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SECTION 11: Toxicological information

| | | |
|------------------------------|---|--|
| Teratogenicity | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Developmental effects | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Fertility effects | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | No known significant effects or critical hazards. No known significant effects or critical hazards. |
| Other information | : Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity | Adverse symptoms may include the following: cardiovascular effects. pulmonary chronic lung disease. (high concentrations) Can cause central nervous system (CNS) depression. (high concentrations) 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 |
|---|--------------------------------------|--|----------|
| Methyl Alcohol 99.8 PCT Purity 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

| Product/ingredient name | LogP _{ow} | 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_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.




Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA |
|---------------------------------|--|--|--|
| 14.1 UN number | UN3316 | UN3316 | UN3316 |
| 14.2 UN proper shipping name | CHEMICAL KIT | CHEMICAL KIT | Chemical kit |
| 14.3 Transport hazard class(es) | 9  | 9  | 9  |
| 14.4 Packing group | II | II | II |
| 14.5 Environmental hazards | No. | No. | No. |

Additional information

ADR/RID : **Hazard identification number** 90
Limited quantity See SP 251
Special provisions 251, 340
Tunnel code (E)

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

14.6 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.

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SECTION 14: Transport information

14.7 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Cleaner - Dust Remover Not applicable.
Methyl Alcohol 99.8 PCT Purity Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| Category |
|---|
| Methyl Alcohol 99.8 PCT Purity H2 H3 P5c |

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.

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SECTION 15: Regulatory information

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

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

| | |
|-----------------------------------|---|
| Abbreviations and acronyms | : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number |
|-----------------------------------|---|

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|--|---|
| Cleaner - Dust Remover Press. Gas (Comp.), H280 | Expert judgment |
| Methyl Alcohol 99.8 PCT Purity Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 | On basis of test data Calculation method Calculation method Calculation method Calculation method |

Full text of abbreviated H statements

| | |
|---|--|
| Cleaner - Dust Remover H280 | Contains gas under pressure; may explode if heated. |
| Methyl Alcohol 99.8 PCT Purity H225 H301 H311 H331 H370 | Highly flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes damage to organs. |

Full text of classifications [CLP/GHS]

Optics Cleaning Kit, Part Number G2505-60527

SECTION 16: Other information

Cleaner - Dust Remover

Press. Gas (Comp.), H280

GASES UNDER PRESSURE - Compressed gas

Methyl Alcohol 99.8 PCT Purity

Acute Tox. 3, H301

Acute Tox. 3, H311

Acute Tox. 3, H331

Flam. Liq. 2, H225

STOT SE 1, H370

ACUTE TOXICITY (oral) - Category 3

ACUTE TOXICITY (dermal) - Category 3

ACUTE TOXICITY (inhalation) - Category 3

FLAMMABLE LIQUIDS - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

Category 1

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Notice to reader

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