

SAFETY DATA SHEET

Optics Cleaning Kit, Part Number G2505-60527

Section 1. Identification

Product identifier : 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 Purity 8500-8397

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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

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

GHS label elements

Hazard pictograms : Cleaner - Dust Remover



Methyl Alcohol 99.8 PCT Purity



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

Section 2. Hazard(s) identification

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.
Precautionary statements		
Prevention	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not applicable. 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 vapour. 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 victim to fresh air and keep at rest in a position 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. P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.
Storage	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	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.
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.
Supplemental label elements		
Additional warning phrases	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not applicable. Not applicable.
Other hazards which do not result in classification	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Acts as a simple asphyxiant. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. None known.

Section 3. Composition and ingredient information

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

Substance Mixture

CAS number/other identifiers

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

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

Description of necessary 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 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.

Section 4. First aid measures

Skin contact	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	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. 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.

Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

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.
Protection of first-aiders	: Cleaner - Dust Remover 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. 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. Firefighting measures

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.
Specific hazards arising from the chemical	: 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.
Hazardous thermal decomposition products	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.

Section 5. Firefighting measures

Special protective actions for fire-fighters	: Cleaner - Dust Remover 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. 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.
Special protective equipment for fire-fighters	: Cleaner - Dust Remover 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazchem code	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	2TE •2WE

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Cleaner - Dust Remover 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. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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 spilt 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 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". 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".

Section 6. Accidental release measures

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).

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.

Section 7. Handling and storage

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 protective equipment before entering eating areas. See also Section 8 for

Section 7. Handling and storage

additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Cleaner - Dust Remover Norflurane	Safe Work Australia (Australia, 1/2014). TWA: 1000 ppm 8 hours. TWA: 4240 mg/m ³ 8 hours.
Methyl Alcohol 99.8 PCT Purity Methanol	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 328 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.

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.

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 and 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: 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.
- 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

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	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	-101°C (-149.8°F) -98°C (-144.4°F)
Boiling point	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	-26.5°C (-15.7°F) >65°C (>149°F)
Flash point	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Closed cup: 12°C (53.6°F)
Evaporation rate	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. 5 (butyl acetate = 1)

Section 9. Physical and chemical properties

Flammability (solid, gas)	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Not applicable.
Lower and upper explosive (flammable) 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 (96 mm Hg) [room temperature] 13.3 kPa (100 mm Hg) [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.
Solubility	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Very slightly soluble in the following materials: cold water and hot water. 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 Methyl Alcohol 99.8 PCT Purity	1.06 Not available.
Auto-ignition temperature	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	>743°C (>1369.4°F) Not available.
Decomposition temperature	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Not available. Not available.
Viscosity	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Dynamic (room temperature): 0.204 mPa·s (0.204 cP) Not available.

Section 10. Stability and reactivity

Reactivity	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	The product is stable. The product is stable.
Possibility of hazardous reactions	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Do not allow gas to accumulate in low or confined areas. 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.

Section 10. Stability and reactivity

Incompatible materials	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	May react or be incompatible with oxidising materials. Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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	-

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	-

Sensitisation

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	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 Methyl Alcohol 99.8 PCT Purity	Routes of entry anticipated: Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
<u>Potential acute health effects</u>		
Eye contact	: Cleaner - Dust Remover Methyl Alcohol 99.8 PCT Purity	Contact with rapidly expanding gas may cause burns or frostbite. No known significant effects or critical hazards.
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.

Symptoms related to the physical, chemical and toxicological characteristics

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.

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

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.

Numerical measures of toxicity

Acute toxicity estimates

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

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.
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Section 12. Ecological information

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

Persistence and degradability

Not available.

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

Mobility in soil

Section 12. Ecological information




Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : 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. 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. 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

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 
Packing group	II	II	II
Environmental hazards	No.	No.	No.

Additional information

ADG : **Hazchem code** 2Z
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

[Standard Uniform Schedule of Medicine and Poisons](#)

6

[Model Work Health and Safety Regulations - Scheduled Substances](#)

Ingredient name	Schedule
Methyl Alcohol 99.8 PCT Purity methanol	Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume]

[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.
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.

Section 16. Any other relevant information

[History](#)

Date of issue/Date of revision	: 26/04/2018
Date of previous issue	: 12/10/2017
Version	: 7

Section 16. Any other relevant information

Key to abbreviations

- : ADG = Australian Dangerous Goods
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NOHSC = National Occupational Health and Safety Commission
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

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

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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