

# Safety Data Sheet

according to WHMIS 2023 and HCS 2024

## 1 Identification

### · Product identifier

#### · Trade name: 4140A-P

- Other Means of Identification: Flux Remover Pen
- Related Part Number: 4140A-P

#### · Application of the substance / the mixture Flux remover for electronics

- Uses advised against Not applicable

### · Details of the supplier of the safety data sheet

#### Manufacturer/Supplier:

MG Chemicals (Head Office)  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA  
+(1) 800-340-0772  
+(1) 905-331-1396  
info@mgchemicals.com

- Information department: sds@mgchemicals.com

### · Emergency telephone number:

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)  
USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service  
CANADA-Call CANUTEC collect at +1-613-996-6666 or \*666 on cellular phones

## \* 2 Hazard identification

### · Classification of the substance or mixture

Flammable liquids – Category 2	H225 Highly flammable liquid and vapour.
Skin Irritation - Category 2	H315 Causes skin irritation.
Eye damage/irritation – Category 2A	H319 Causes serious eye irritation.
Reproductive Toxicity - Category 2	H361 Suspected of damaging fertility or the unborn child.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms



GHS02 GHS07 GHS08 GHS09

- Signal word Danger

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· **Hazard-determining components of labeling:**

- ethanol
- 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
- Propan-2-ol
- octamethylcyclotetrasiloxane

· **Hazard statements**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

- P102 Keep out of reach of children.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P243 Take action to prevent static discharges.
- P264 Wash thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice.
- P337+P313 If eye irritation persists: Get medical advice.
- P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
- P391 Collect spillage.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents and container in accordance with local, regional, and national regulations.

· **Other hazards** Repeated exposure may cause skin dryness or cracking.

**3 Composition/Information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

64-17-5	ethanol	67% w/w
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	25% w/w
67-63-0	Propan-2-ol	5% w/w
141-78-6	ethyl acetate	2% w/w

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556-67-2	octamethylcyclotetrasiloxane	0.3% w/w
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## 4 First-aid measures

### · Description of first aid measures

#### · After inhalation:

Remove person to fresh air and keep comfortable for breathing.  
If exposed or concerned: Get medical advice/attention.

#### · After skin contact:

Take off immediately all contaminated clothing.  
Wash with plenty of soap and water.  
If exposed or concerned: Get medical advice or attention.

#### · After eye contact:

Rinse cautiously with water for 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice or attention.

#### · After swallowing:

Rinse mouth.  
Do NOT induce vomiting.  
If symptoms persist consult doctor.  
If exposed or concerned: Get medical advice or attention.

### · Most important symptoms and effects, both acute and delayed

No further relevant information available.

### · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### · Extinguishing media

#### · Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use water spray to cool containers.

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

Prevent fire-fighting wash from entering waterway or sewer system.

#### · Hazardous combustion products:

Carbon Oxides (CO<sub>x</sub>)  
Silicone oxides  
formaldehyde

### · Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

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## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Remove or keep away all sources of extreme heat or open flames.  
Avoid breathing the fumes or vapors.
- **Environmental precautions:**  
Avoid release to the environment.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Collect liquid in a sealable, chemical-resistant container.  
Wash residue with a paper towel and place dirty towels in container.  
Use soap and water to remove the last traces of residue.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Precautions for safe handling**  
Wear protective gloves and eye protection.  
Wash hands and exposed skin thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.  
Collect spillage.  
Avoid breathing fumes or vapours.  
Obtain, read and follow all safety instructions before use.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Use explosion-proof apparatus / fittings and spark-proof tools.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** See section 1.2

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**8 Exposure controls/ Personal protection**

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

<b>64-17-5 ethanol</b>	
EL (Canada)	STEL: 1000 ppm
EV (Canada)	TWA: 1,900 mg/m <sup>3</sup> , 1,000 ppm
PEL (USA)	TWA: 1900 mg/m <sup>3</sup> , 1000 ppm
REL (USA)	TWA: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	STEL: 1880 mg/m <sup>3</sup> , 1000 ppm A3
<b>67-63-0 Propan-2-ol</b>	
EL (Canada)	STEL: 400 ppm TWA: 200 ppm
EV (Canada)	STEL: 400 ppm TWA: 200 ppm
PEL (USA)	TWA: 980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	STEL: 1225 mg/m <sup>3</sup> , 500 ppm TWA: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	STEL: 984 mg/m <sup>3</sup> , 400 ppm TWA: 491 mg/m <sup>3</sup> , 200 ppm BEI, A4
<b>141-78-6 ethyl acetate</b>	
EL (Canada)	TWA: 150 ppm
EV (Canada)	TWA: 1,440 mg/m <sup>3</sup> , 400 ppm
PEL (USA)	TWA: 1400 mg/m <sup>3</sup> , 400 ppm
REL (USA)	TWA: 1400 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	TWA: 1440 mg/m <sup>3</sup> , 400 ppm
<b>556-67-2 octamethylcyclotetrasiloxane</b>	
WEEL (USA)	TWA: 10* ppm *OARS WEEL

· **Ingredients with biological limit values:**

<b>67-63-0 Propan-2-ol</b>	
BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

· **Additional information:**

The lists that were valid during the creation were used as basis.  
 Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

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· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses or tightly sealed goggles: EN 166

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

- **Physical state** Liquid
- **Form:** Low viscosity
- **Color:** Colorless
- **Odor:** Alcohol-like
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:**  $\geq 78 \text{ }^\circ\text{C}$  ( $\geq 172.4 \text{ }^\circ\text{F}$ )
- **Flammability:** Highly flammable.

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· <b>Explosion limits:</b>	
· Lower:	3 Vol %
· Upper:	18 Vol %
· Flash point:	13 °C (55.4 °F)
· Auto igniting:	363 °C (685.4 °F)
· Decomposition temperature:	Not determined.
· pH-value:	Not determined.
· Viscosity:	
· Kinematic at 40 °C (104 °F):	<20.5 mm <sup>2</sup> /s
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Vapor pressure at 20 °C (68 °F):	57 hPa (42.8 mm Hg)
· Vapor pressure:	
· Relative density at 25 °C (77 °F):	0.83
· Vapor density (air=1):	≥1.6
· Particle characteristics	Not applicable.
· <b>Other information</b>	
· <b>Important information on protection of health and environment, and on safety.</b>	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	Not available
· Evaporation rate	Not determined.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Chemically stable at normal temperatures and pressures.
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
- **Incompatible materials:**
  - Strong acids
  - Strong bases
  - Halogenated compounds
  - Strong oxidizing agents
  - Aluminum at temperatures ≥49 °C

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- **Hazardous decomposition products:**  
 No dangerous decomposition products known.  
 Hazardous combustion products: see section 5.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>64-17-5 ethanol</b>		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/L (rat)
<b>67-63-0 Propan-2-ol</b>		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/L (rat)
<b>141-78-6 ethyl acetate</b>		
Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/L (rat)

- **Primary irritant effect:**
  - **on the eye:** Irritating effect.
- **Summary of effects and symptoms by route of exposure**
  - **Eyes:**  
 redness, serious irritation  
 pain
  - **Skin:**  
 dry skin  
 redness
  - **Inhalation:**  
 cough  
 sore throat
  - **Swallowed:**  
 nausea  
 vomiting  
 abdominal pain
- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**  
 Prolonged or repeated exposure may defat skin and cause skin dryness and cracking, and local redness and discomfort.
- **Additional toxicological information:**  
 The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant

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· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
64-17-5	ethanol	1
67-63-0	Propan-2-ol	3
· NTP (National Toxicology Program)		
None of the ingredients is listed.		

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.  
 Avoid release to the environment.  
 Collect spillage.

64-17-5 ethanol	
LC50	>1,000 mg/L (fish) Biodegradable
67-63-0 Propan-2-ol	
EC50/ 24 h	5,102 mg/L (daphnia)
EC50/ 72 h	>2,000 mg/L (algae)
LC50 96h	9,640 mg/L (minnow)

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Results of PBT and vPvB assessment**

· PBT:	
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane
556-67-2	octamethylcyclotetrasiloxane
· vPvB:	
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane
556-67-2	octamethylcyclotetrasiloxane

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation:** This material and its container must be disposed of as hazardous waste.

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· **Uncleaned packagings:**

· **Recommendation:**

Containers may still present a chemical hazard/ danger when empty.  
 Dispose of contents in accordance with all local, regional, national, and international regulations.  
 Where possible retain label warnings and SDS and observe all notices pertaining to the product.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

· <b>UN-Number</b> · DOT/TDG, IMDG, IATA	UN1987
· <b>UN proper shipping name</b> · DOT/TDG, IATA · IMDG	Alcohols, n.o.s. (ethanol, Propan-2-ol) ALCOHOLS, N.O.S. (ethanol, Propan-2-ol)
· <b>Transport hazard class(es)</b> · DOT/TDG (Transport dangerous goods):	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>Packing group</b> · DOT/TDG, IMDG, IATA	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (IATA):</b>	Product contains environmentally hazardous substances: octamethylcyclotetrasiloxane MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
	Excepted Quantity
<ul style="list-style-type: none"> <li>· <b>DOT/TDG</b></li> </ul>	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>· <b>Quantity limitations</b></li> </ul> </li> </ul>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> </li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul> </li> </ul>	33 F-E,S-D B
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1987 ALCOHOLS, N.O.S. (ETHANOL, PROPAN-2-OL), 3, II

**\* 15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **OSHA Hazard Communication Standard (29 CFR Part 1900)**  
The safety data sheet and label comply with HCS 2024.
- **Hazardous Products Act (R.S.C., 1985, c. H-3)**  
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2023.
- **Sara**

<ul style="list-style-type: none"> <li>· <b>Section 355 (extremely hazardous substances):</b></li> </ul>		
None of the ingredients is listed.		
<ul style="list-style-type: none"> <li>· <b>Section 313 (Specific toxic chemical listings):</b></li> </ul>		
67-63-0	Propan-2-ol	
<ul style="list-style-type: none"> <li>· <b>TSCA (Toxic Substances Control Act):</b></li> </ul>		
64-17-5	ethanol	ACTIVE
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane	ACTIVE
67-63-0	Propan-2-ol	ACTIVE
141-78-6	ethyl acetate	ACTIVE
556-67-2	octamethylcyclotetrasiloxane	ACTIVE

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· <b>Hazardous Air Pollutants</b>
None of the ingredients is listed.

· **Proposition 65**

· <b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause developmental toxicity:</b>
64-17-5   ethanol

· **Carcinogenic categories**

· <b>TLV (Threshold Limit Value)</b>	
64-17-5   ethanol	A3
67-63-0   Propan-2-ol	A4

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed.

· **Canadian substance listings:**

· <b>Canadian Domestic Substances List (DSL)</b>
All ingredients are listed.

· <b>Canadian Non-Domestic Substances List (NDSL)</b>
None of the ingredients is listed.

· <b>Canadian Ingredient Disclosure list (limit 0.1%)</b>
64-17-5   ethanol

· <b>Canadian Ingredient Disclosure list (limit 1%)</b>
67-63-0   Propan-2-ol
141-78-6   ethyl acetate

· **HMIS-ratings (scale 0 - 4)**

Health = 2  
 Fire = 3  
 Reactivity = 0

· **Europe**

· **RoHS (Restriction of Hazardous Substances Directive)**

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

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- **WEEE (Waste Electrical and Electronic Equipment Directive)**  
This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Regulatory department
- **Contact:** sds@mgchemicals.com
- **Version number of previous version:** 1.00
- **Date of preparation** 03/07/2025
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
- **\* Data compared to the previous version altered.**

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