## SAFETY DATA SHEET
### CH741 CONTACT CLEANER


### 1. Identification

<table>
<thead>
<tr>
<th>Product Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
</tr>
<tr>
<td><strong>Product number</strong></td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

**Application**: Cleaning agent.

**Details of the supplier of the safety data sheet**

**Manufacturer**: Techni-Tool, Inc.
1547 North Trooper Road
Worcester, PA 19490-1117
610-941-2400
610-940-5485
www.techni-tool.com

**Emergency telephone number**

**Emergency telephone**: CHEMTREC (800) 424-9300

### 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Classification of the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OSHA Regulatory Status</strong>: This Product is Hazardous under the OSHA Hazard Communication Standard.</td>
</tr>
<tr>
<td><strong>Physical hazards</strong>: Flam. Aerosol 1 - H222</td>
</tr>
<tr>
<td><strong>Health hazards</strong>: Eye Irrit. 2A - H319 Repr. 2 - H361 STOT SE 1 - H370 STOT SE 3 - H335</td>
</tr>
<tr>
<td><strong>Environmental hazards</strong>: Not Classified</td>
</tr>
</tbody>
</table>

**Human health**: Splashes in the eyes may cause redness and irritation. Keep out of the reach of children. See Section 11 for additional information on health hazards.

**Physicochemical**: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

**Label elements**

**Pictogram**

[![Flammable](image1.png)](image1.png)  [![Danger](image2.png)](image2.png)

**Signal word**: Danger

**Hazard statements**

H222 Extremely flammable aerosol.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H361 Suspected of damaging fertility or the unborn child.
H370 Causes damage to organs.
CH741 CONTACT CLEANER

Precautionary statements

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P314 Get medical advice/ attention if you feel unwell.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P412 Do not expose to temperatures exceeding 50°C/122°F.
P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label information

Safety data sheet available on request. For use in industrial installations only.

Contains

PROPAN-2-OL, ETHANOL

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

PROPAN-2-OL 30-60%
CAS number: 67-63-0

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H335

ETHANOL 30-60%
CAS number: 64-17-5

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
Repr. 2 - H361
STOT SE 1 - H370
STOT SE 3 - H335

HFC-134a Tetrafluoroethane 10-30%
CAS number: 811-97-2

Classification
Press. Gas, Liquefied - H280
CH741 CONTACT CLEANER

METHANOL
CAS number: 67-56-1

<1%

Classification
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT SE 1 - H370

The full text for all hazard statements is displayed in Section 16.

Composition comments
The exact percentage (concentration) of composition has been withhold as a trade secret in accordance with paragraph (i) of CFR 1900.1200 TSCA: The ingredients of this product are on the TSCA Inventory.

Composition

4. First-aid measures

Description of first aid measures

General information
Promptly remove any clothing that becomes wet or contaminated. Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation
Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion
Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Consult a physician for specific advice.

Skin Contact
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Vapors may cause headache, fatigue, dizziness and nausea.

Ingestion
May cause stomach pain or vomiting. Headache.

Skin contact
Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.

Eye contact
Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. Irritation and redness, followed by blurred vision.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.
CH741 CONTACT CLEANER

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Oxides of carbon. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

Hazardous combustion products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

Advice for firefighters

Protective actions during firefighting

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. If leakage cannot be stopped, evacuate area. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

7. Handling and storage

Precautions for safe handling

Usage precautions

Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Keep out of the reach of children. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

Specific end use(s)

Cleaning agent.

Reference to other sections

Store away from incompatible materials (see Section 10).

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

PROPAN-2-OL
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Long-term exposure limit (8-hour TWA): OSHA 400 ppm  980 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm  492 mg/m³
Short-term exposure limit (15-minute): ACGIH 400 ppm  984 mg/m³

A4

ETHANOL

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm  1900 mg/m³
Short-term exposure limit (15-minute): ACGIH 1000 ppm  1880 mg/m³

A3

HFC-134a Tetrafluoroethane

Long-term exposure limit (8-hour TWA): OES  4240 mg/m³
Short-term exposure limit (15-minute): OES

METHANOL

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm  262 mg/m³
Short-term exposure limit (15-minute): ACGIH 250 ppm  328 mg/m³
Sk
Long-term exposure limit (8-hour TWA): OSHA 200 ppm  260 mg/m³
OSHA = Occupational Safety and Health Administration.
ACGIH = American Conference of Governmental Industrial Hygienists.
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.
Sk = Danger of cutaneous absorption.
A4 = Not Classifiable as a Human Carcinogen.

Additional Occupational Exposure Limits

Ingredient comments  
WEL = Workplace Exposure Limits

Exposure controls

Protective equipment

Appropriate engineering controls  
Provide adequate general and local exhaust ventilation.

Eye/face protection  
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection  
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Other skin and body protection  
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

Hygiene measures  
Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection  
No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

9. Physical and Chemical Properties

Information on basic physical and chemical properties
### CH741 CONTACT CLEANER

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Clear liquid. Colorless.</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcoholic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available.</td>
</tr>
<tr>
<td>pH</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>77.6°C/172°F @ 101.3 kPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>12°C/53°F TCC (Tag closed cup).</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available.</td>
</tr>
<tr>
<td>Evaporation factor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Upper flammable/explosive limit: 12.7 %(V) Lower flammable/explosive limit: 2.0 %(V)</td>
</tr>
<tr>
<td>Other flammability</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>5.20 kPa @ 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>1.82</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Completely soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>There are no chemical groups present in the product that are associated with oxidizing properties.</td>
</tr>
<tr>
<td>Comments</td>
<td>Aerosol.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No information available.</td>
</tr>
<tr>
<td>Particle size</td>
<td>No information available.</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available.</td>
</tr>
<tr>
<td>Volatility</td>
<td>100%</td>
</tr>
<tr>
<td>Saturation concentration</td>
<td>No information available.</td>
</tr>
<tr>
<td>Critical temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Volatile organic compound</td>
<td>This product contains a maximum VOC content of 785 g/litre.</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable aerosol.</td>
</tr>
</tbody>
</table>

#### 10. Stability and reactivity

- No information available.
CH741 CONTACT CLEANER

Stability
Stable at normal ambient temperatures.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid heat, flames and other sources of ignition.

Materials to avoid

Hazardous decomposition products

11. Toxicological information

Information on toxicological effects

Other health effects
There is no evidence that the product can cause cancer.

Acute toxicity - oral
ATE oral (mg/kg) 11,111.11

Acute toxicity - dermal
ATE dermal (mg/kg) 1,755,555.56

Acute toxicity - inhalation
ATE Inhalation (vapours mg/l) 333.33

Inhalation
May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

Skin Contact
Product has a defatting effect on skin. May cause skin irritation/eczema.

Eye contact
Irritating to eyes.

Toxicological information on ingredients.

PROPAN-2-OL

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 5,800.0
Species Rat
ATE oral (mg/kg) 5,800.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 13,000.0
Species Rabbit
ATE dermal (mg/kg) 13,000.0

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l) 16,000.0
Species Rat
CH741 CONTACT CLEANER

ATE inhalation (vapours mg/l) 16,000.0

Carcinogenicity
IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.
NTP carcinogenicity Not listed.
OSHA Carcinogenicity Not listed.

ETHANOL

Carcinogenicity
IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

HFC-134a Tetrafluoroethane

Other health effects
There is no evidence that the product can cause cancer.

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ gases ppmV) 567,000.0
Species Rat
ATE inhalation (gases ppm) 567,000.0

METHANOL

Acute toxicity - oral
Acute toxicity oral (LD₅₀ mg/kg) 2,000.0
Species Monkey
ATE oral (mg/kg) 100.0

Acute toxicity - dermal
Acute toxicity dermal (LD₅₀ mg/kg) 15,800.0
Species Rabbit
ATE dermal (mg/kg) 15,800.0

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l) 87.5
Species Rat
ATE inhalation (vapours mg/l) 3.0

12. Ecological Information

Toxicity
Ecological information on ingredients.
CH741 CONTACT CLEANER

PROPN-2-OL

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours}: 9,640 \text{ mg/l}, \text{ Fish} \)

Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours}: 5102 \text{ mg/l}, \text{ Daphnia magna} \)

Acute toxicity - aquatic plants  \( IC_{50}, 72 \text{ hours}: >2,000 \text{ mg/l}, \text{ Algae} \)

ETHANOL

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours}: >10,000 \text{ mg/l}, \text{ Fish} \)

Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours}: 7,800 \text{ mg/l}, \text{ Daphnia magna} \)

HFC-134a Tetrafluoroethane

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours}: 450 \text{ mg/l}, \text{ Fish} \)

Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours}: 980 \text{ mg/l}, \text{ Daphnia magna} \)

METHANOL

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours}: >100 \text{ mg/l}, \text{ Pimephales promelas (Fat-head Minnow)} \)

Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours}: >10000 \text{ mg/l}, \text{ Daphnia magna} \)

Persistence and degradability

Bioaccumulative potential

Partition coefficient  No information available.

Ecological information on ingredients.

HFC-134a Tetrafluoroethane

Partition coefficient  Pow: 1.06

Mobility in soil

Mobility  Not considered to be a significant hazard due to the small quantities used.

Results of PBT and vPvB assessment

Other adverse effects

13. Disposal considerations

Waste treatment methods

General information  Reuse or recycle products wherever possible.

Disposal methods  Empty containers must not be punctured or incinerated because of the risk of an explosion. Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number
CH741 CONTACT CLEANER

UN No. (TDG) UN1950
UN No. (IMDG) UN1950
UN No. (ICAO) UN1950
UN No. (DOT) UN1950

UN proper shipping name
Proper shipping name (TDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY
Proper shipping name (IMDG) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY
Proper shipping name (ICAO) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY
Proper shipping name (DOT) UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

Transport hazard class(es)
TDG class 2.1
TDG label(s) 2.1
IMDG Class 2.1
ICAO class/division 2.1

Transport labels

Packing group
TDG Packing Group N/A
IMDG packing group N/A
ICAO packing group N/A
DOT packing group N/A

Environmental hazards
Environmentally Hazardous Substance No.

Special precautions for user
EmS F-E, S-E

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

International Regulations
US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
CH741 CONTACT CLEANER

METHANOL
Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
Not listed.

SARA 313 Emission Reporting
METHANOL
1.0 %

CAA Accidental Release Prevention
Not listed.

SARA (311/312) Hazard Categories
Acute
Chronic
Fire
Pressure

OSHA Highly Hazardous Chemicals
Not listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
METHANOL
Known to the State of California to cause developmental and reproductive toxicity.

California Air Toxics "Hot Spots" (A-I)
PROPN-2-OL
Present.
METHANOL
Present.

California Air Toxics "Hot Spots" (A-II)
Not listed.

California Directors List of Hazardous Substances
PROPN-2-OL
Present.
METHANOL
Present.

Massachusetts "Right To Know" List
PROPN-2-OL
Present.
METHANOL
Present.
ETHANOL
Present.

Rhode Island "Right To Know" List
CH741 CONTACT CLEANER

PROPN-2-OL
Present.

METHANOL
Present.

ETHANOL
Present.

Minnesota "Right To Know" List

PROPN-2-OL
Present.

HFC-134a Tetrafluoroethane
Present.

METHANOL
Present.

ETHANOL
Present.

New Jersey "Right To Know" List

PROPN-2-OL
Present.

METHANOL
Present.

ETHANOL
Present.

Pennsylvania "Right To Know" List

PROPN-2-OL
Present.

METHANOL
Present.

ETHANOL
Present.

Inventories

Canada - DSL/NDSL
Yes

PROPN-2-OL
HFC-134a Tetrafluoroethane
METHANOL
ETHANOL

US - TSCA
Yes

16. Other Information

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 9/8/2016
### CH741 CONTACT CLEANER

<table>
<thead>
<tr>
<th>Revision</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supersedes date</td>
<td>8/5/2016</td>
</tr>
<tr>
<td>SDS No.</td>
<td>AEROSOL - CH741</td>
</tr>
</tbody>
</table>

#### Hazard statements in full
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapor.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to organs.
- H370 Causes damage to organs (Central nervous system, Eyes).

#### NFPA - health hazard
- Irritation, minor residual injury. (1)

#### NFPA - flammability hazard
- Ignites easily. (3)

#### NFPA - instability hazard
- Unstable if heated. (1)

#### NFPA - special hazard
- N/A

#### ACA HMIS Health rating.
- Slight Hazard. (1)

#### ACA HMIS Flammability rating.
- Ignoles easily. (3)

#### ACA HMIS Physical hazard rating.
- Unstable if heated. (1)

#### ACA HMIS Personal protection rating.
- B

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.