



VAPCO PRODUCTS, INC.

Safety Data Sheet Degreaser Solvent

SECTION 1: Identification

1.1 GHS Product identifier

Product name	Degreaser Solvent
Product number	DS-1, DS-5, DS-55
Brand	Vapco

1.3 Recommended use of the chemical and restrictions on use

Product use: Chlorinated solvent degreaser

Restrictions on use: After December 8, 2026 this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers for any use. After March 8, 2027, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of PCE equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant/intermediate; (2) Processing into formulation, mixture or reaction product; (3) Processing by repackaging; (4) Recycling; (5) Industrial and commercial use as a solvent in open-top batch vapor degreasing; (6) Industrial and commercial use as solvent in closed-loop batch vapor degreasing; (7) Industrial and commercial use in maskant for chemical milling; (8) Industrial and commercial use as a processing aid in catalyst regeneration in petrochemical manufacturing; (8) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (9) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (10) Industrial and commercial use as a solvent for cold cleaner of tanker vessels; (11) Industrial and commercial use as energized electrical cleaner; (12) Industrial and commercial use in laboratory chemicals, (13) Industrial and commercial use in solvent-based adhesives and sealants; (14) Industrial and commercial use in dry cleaning in 3rd generation machines until December 20, 2027; (15) Industrial and commercial use in all dry cleaning and related spot cleaning until December 19, 2034; (16) Export; and (17) Disposal.

1.4 Supplier's details

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 United States
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

1.5 Emergency phone number

(800) 255-3924

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SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

- Acute toxicity, inhalation, Cat. 4
- Aspiration hazard, Cat. 1
- Carcinogenicity, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see First Aid on this label).
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to the specifications of local, regional, national, and international regulations.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Perchloroethylene

Concentration	40 - 60 % (weight)
EC no.	204-825-9
CAS no.	127-18-4
Index no.	602-028-00-4

2. Distillates, petroleum, hydrotreated light

Concentration	40 - 60 % (weight)
EC no.	265-149-8
CAS no.	64742-47-8
Index no.	649-422-00-2

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention.
In case of skin contact	Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists.
In case of eye contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2 Most important symptoms/effects, acute and delayed

Symptoms/Injuries: Harmful if inhaled. May cause irritation to skin.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances.

Symptoms/Injuries After Skin Contact: Contact with gas/liquid escaping the container can cause dermatitis and defatting.

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Chronic Health Hazards: Possible cancer causing agent and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand. Note to physician: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Dry chemical, foam, or carbon dioxide (CO₂).

5.2 Specific hazards arising from the chemical

Explosion Hazard: Container may explode in heat of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Reactivity: This product may react with strong oxidizing agents. Increased risk of fire or explosion. Certain mixtures of chlorinated solvent may be flammable or reactive under certain conditions.

5.3 Special protective actions for fire-fighters

Precautionary Fire Measures: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use dry chemical, foam, or carbon dioxide (CO₂). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

Hazardous Combustion Products: Carbon oxide(s), chlorine, hydrogen chloride, and phosgene.

Further information

Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedure: Eliminate ignition sources first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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6.3 Methods and materials for containment and cleaning up

For Containment: Ventilate the area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Waste Disposal: Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld. Product should be fully characterized prior to disposal (40 CFR 261).

RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Additional Hazards When Processed: Do not pressurize, cut, or weld containers. Pressurized container: May burst if heated. Do not pierce or burn, even after use.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Other Precautions: Keep out of reach of children. Follow label instructions. Vapors may collect in low lying areas.

7.2 Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

Specific end use(s)

Chlorinated solvent degreaser

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Perchloroethylene (CAS: 127-18-4 EC: 204-825-9)

IOELV-LTEL [Tetrachloroethylene] (Inhalation): 138 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 4 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-LTEL [Tetrachloroethylene] (Inhalation): 20 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 4 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-STEL [Tetrachloroethylene] (Inhalation): 275 mg/m³; EU (EU/OSHA)

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Skin designation: Yes. List no. 4 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-STEL [Tetrachloroethylene] (Inhalation): 40 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 4 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

STEL (Inhalation): 150 ppm; 1020 mg/m³; AU (AU/SWA)

TWA (Inhalation): 50 ppm; 340 mg/m³; AU (AU/SWA)

8.2 Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

Skin protection

Wear protective gloves and clothing.

Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.

Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear liquid
Color	Colorless
Odor	Solvent odor
Odor threshold	N/A
Melting point/freezing point	-142.6 °F (-97 °C) estimated
Boiling point or initial boiling point and boiling range	104 °F (40 °C) estimated
Flammability	N/A
Lower and upper explosion limit/flammability limit	0.5% - 19.5% estimated
Flash point	124 °F (51.0 °C) lowest flashing component
Auto-ignition temperature	446 °F (230 °C) estimated
Decomposition temperature	N/D
pH	N/A
Kinematic viscosity	N/D
Solubility	N/D
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	68.82 hPa estimated
Evaporation rate	N/A
Density and/or relative density	1.19

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Relative vapor density

>1 (Air =1)

SECTION 10: Stability and reactivity

10.1 Reactivity

This product may react with strong oxidizing agents. Certain mixtures of chlorinated solvents may be flammable or reactive under certain conditions. Increased risk of fire or explosion.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5 Incompatible materials

Strong acids and alkalis, strong oxidizing agents, chemically active metals (e.g. aluminum, barium, lithium, sodium, magnesium, potassium, titanium, and beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

10.6 Hazardous decomposition products

Carbon oxide(s), chlorine, hydrogen chloride, and phosgene.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Tetrachloroethylene

LC50 Inhalation - Rat - 4,100 ppm - 6 hour

LD50 Skin - Rabbit - >10,000 mg/kg

LD50 Oral - Rat - 2,629 mg/kg

Skin corrosion/irritation

Contact causes irritation and may cause an allergic reaction that includes redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

Serious eye damage/irritation

Contact may cause irritation with stinging, burning, tearing, and redness.

Respiratory or skin sensitization

High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms. Inhalation is likely to cause adverse health effects including, but not limited to: irritation, difficulty breathing, and unconsciousness. In elevated concentrations, may cause asphyxiation, central nervous system effects, and increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvent material, which is associated with cardiac sensitization following very high exposures or with concurrent exposure to high stress levels or heart-stimulating substances like epinephrine and catecholamines. Careful consideration should be applied preceding administration of epinephrine or similar heart-stimulating substances. Prolonged exposure may cause unconsciousness, heart effects, kidney effects, and death.

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Germ cell mutagenicity

Not classified.

Carcinogenicity

Possible cancer causing agents and overexposure may also include damage to skin, kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, lungs, blood, or central nervous system.

Reproductive toxicity

Not classified.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness. Inhalation of vapors may be narcotic or anesthetic. Ingestion of liquid will cause gastrointestinal distress, irritation, and possibly nausea. Liquid or vapors may be irritating to skin and eyes.

Specific target organ toxicity (STOT) - repeated exposure

Possible cancer causing agent and overexposure may also include damage to kidneys, liver, dizziness, headache, nausea, mental confusion, visual disturbances, dermatitis, lungs, blood, or central nervous system.

Aspiration hazard

The ATE (gas inhalation) of the mixture is: 15,000 ppm

The ATE (vapor inhalation) of the mixture is: 36.67 mg/l

SECTION 12: Ecological information

Toxicity

Tetrachloroethylene

LC50 - Pimephales promelas (fathead minnow) - 18.4 mg/l - 96 hr

LC50 - Daphnia magna (water flea) - 18 mg/L - 96 hr

LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/L - 96 hr

LC50 - Lepomis macrochirus (bluegill) - 13 mg/L - 96 hr

Persistence and degradability

Component or components of this product are not biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

Other adverse effects

This material is toxic to aquatic life.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

Sewage disposal

This material is toxic to aquatic life. Keep out of sewers and waterways.

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Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container. Product should be fully characterized prior to disposal.

SECTION 14: Transport information

DOT (US)

UN Number: UN2810

Class: 6.1

Packing Group: III

Proper Shipping Name: Toxic, liquids, organic, n.o.s.

Marine pollutant: Yes

IMDG

UN Number: UN2810

Class: 6.1

Packing Group: III

Proper Shipping Name: Toxic, liquids, organic, n.o.s.

IATA

UN Number: UN2810

Class: 6.1

Packing Group: III

Proper Shipping Name: Toxic, liquids, organic, n.o.s.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Proposition 65 Chemicals List

WARNING: This product can expose you to chemicals including Tetrachloroethylene (Perchloroethylene), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Massachusetts Right To Know Components (105 CMR 670)

Chemical name: PERCHLOROETHYLENE

CAS number: 127-18-4

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Perchloroethylene

CAS number: 127-18-4

New Jersey Right To Know Components

Common name: TETRACHLOROETHYLENE

CAS number: 127-18-4

Pennsylvania Right To Know Components

Chemical name: ETHENE, TETRACHLORO-

CAS number: 127-18-4

US EPA TSCA public inventory

Chemical name: Distillates, petroleum, hydrotreated light

CAS number: 64742-47-8

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Chemical name: Perchloroethylene
CAS number: 127-18-4

15.2 Chemical Safety Assessment

Restrictions on use: After December 8, 2026 this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers for any use. After March 8, 2027, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of PCE equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant/intermediate; (2) Processing into formulation, mixture or reaction product; (3) Processing by repackaging; (4) Recycling; (5) Industrial and commercial use as a solvent in open-top batch vapor degreasing; (6) Industrial and commercial use as solvent in closed-loop batch vapor degreasing; (7) Industrial and commercial use in maskant for chemical milling; (8) Industrial and commercial use as a processing aid in catalyst regeneration in petrochemical manufacturing; (8) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (9) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (10) Industrial and commercial use as a solvent for cold cleaner of tanker vessels; (11) Industrial and commercial use as energized electrical cleaner; (12) Industrial and commercial use in laboratory chemicals, (13) Industrial and commercial use in solvent-based adhesives and sealants; (14) Industrial and commercial use in dry cleaning in 3rd generation machines until December 20, 2027; (15) Industrial and commercial use in all dry cleaning and related spot cleaning until December 19, 2034; (16) Export; and (17) Disposal.

SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

16.1 Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

16.2 Preparation information

Prepared by: Jessica Wilson
Date prepared: 8/4/2025