



VAPCO PRODUCTS, INC.

## Safety Data Sheet Re-Energize

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### SECTION 1: Identification

#### GHS Product identifier

Product name	Re-Energize
Product number	CC-1
Brand	Vapco

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

Cleaner for mechanical electrical equipment

#### 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

#### Emergency phone number

(800) 255-3924

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### SECTION 2: Hazard identification

#### Classification of the substance or mixture

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

- Carcinogenicity, Cat. 1B
- Eye damage/irritation, Cat. 2A
- Germ cell mutagenicity, Cat. 2
- Gases under pressure, compressed gas
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

# Safety Data Sheet

## GHS label elements, including precautionary statements

### Pictogram



### Signal word

**Danger**

### Hazard statement(s)

H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause 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 and other exposed areas thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see First Aid on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: 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.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
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

### Mixtures

### Hazardous components

#### 1. TRICHLOROETHYLENE

Concentration	40 - 60 % (weight)
EC no.	201-167-4
CAS no.	79-01-6
Index no.	602-027-00-9

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## 2. TETRACHLOROETHYLENE

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

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## SECTION 4: First-aid measures

### 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.

### Most important symptoms/effects, acute and delayed

#### Acute Health Hazards

**Symptoms/Injuries:** Harmful if inhaled. Causes serious eye irritation. May cause drowsiness and dizziness. Asphyxia by lack of oxygen: risk of death.

**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 breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvents, 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 Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Not considered a potential route of exposure.

**Symptoms/Injuries After Skin Contact:** Prolonged or repeated contact may dry skin

**Chronic Health Hazards:** 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.

Note to Physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

### 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.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Dry chemical, foam, or carbon dioxide (CO<sub>2</sub>).

#### 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:** May react with chemically active metals and acids.

#### Special protective actions for fire-fighters

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

**Firefighting Instructions:** Use dry chemical, foam, or carbon dioxide (CO<sub>2</sub>). 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:** Oxides of carbon, chlorine, hydrogen chloride and phosgene.

#### Further information

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

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### SECTION 6: Accidental release measures

#### 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 source 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.

#### Environmental precautions

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

#### Methods and materials for containment and cleaning up

**Methods For Containment:** Ventilate 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.

## Safety Data Sheet

### Reference to other sections

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

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## SECTION 7: Handling and storage

### Precautions for safe handling

**Additional Hazards When Processed:** Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. 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 area.

### 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, strong alkalis, strong oxidizing agents, chemically active metals (such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium), concentrated nitric acid, some plastics, rubbers and coatings.

**Storage Temperature:** <50°C/122°F.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 124-38-9

Carbon dioxide

Cal/OSHA: 5000 ppm, (ST) 30,000 ppm PEL inhalation; NIOSH: 5000 ppm, (ST) 30,000 ppm REL inhalation; OSHA: 5000 ppm PEL inhalation; 9000 mg/m3 PEL inhalation

#### CAS: 127-18-4

TETRACHLOROETHYLENE

Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 ppm PEL inhalation; See Annotated Z-2 mg/m3 PEL inhalation

#### CAS: 79-01-6

Trichloroethylene

Cal/OSHA: See Annotated Z-2 PEL inhalation; NIOSH: See Annotated Z-2 REL inhalation; OSHA: See Annotated Z-2 ppm PEL inhalation; See Annotated Z-2 mg/m3 PEL inhalation

### 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 observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

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### Pictograms



### 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/flame resistant/retardant clothing.

### Respiratory protection

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

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## SECTION 9: Physical and chemical properties and safety characteristics

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Aerosol
Color	Colorless
Odor	Chlorinated Solvent
Odor threshold	N/D
Melting point/freezing point	N/D
Boiling point or initial boiling point and boiling range	>188°F (87°C)
Flammability	Not considered a flammable aerosol or extremely flammable aerosol by OSHA (29CFR 1910.1200)
Lower and upper explosion limit/flammability limit	N/D
Flash point	N/D
Auto-ignition temperature	N/D
Decomposition temperature	>400°C
pH	N/A
Kinematic viscosity	N/D
Solubility	Unsoluble in water
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	59 mm Hg
Evaporation rate	>3 (Fast)
Density and/or relative density	1.52
Relative vapor density	>2 (Air=1)

### Further safety characteristics (supplemental)

Volatile Organic Content: 44%  
Dielectric Strength (Volts): 29,000  
Solids: 0%

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## SECTION 10: Stability and reactivity

## Safety Data Sheet

### Reactivity

May react with chemically active metals and acids.

### Chemical stability

Contains gas under pressure; may explode if heated. Pressurized container: may burst if heated.

### Possibility of hazardous reactions

None known.

### Conditions to avoid

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

### Incompatible materials

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

### Hazardous decomposition products

Oxides of carbon, chlorine, hydrogen chloride and phosgene.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

TETRACHLOROETHYLENE

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

LC50 Inhalation - Rat - 4100 ppm - 6 hour(s)

LD50 Skin - Rabbit - >10000 mg/kg

LD50 Oral - Rat - 2629 mg/kg

LC50 - Daphnia magna (water flea) - 18 mg/L - 48hr

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

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

TRICHLOROETHYLENE

LD50 Oral - Rat - 4920 mg/kg

LD50 Skin - Rabbit - > 20,000 mg/kg

LC50 Inhalation - Mouse - 8450 ppm

#### Skin corrosion/irritation

Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

#### Serious eye damage/irritation

Causes irritation, burning, redness, tearing.

#### Respiratory or skin sensitization

Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.

#### Germ cell mutagenicity

Contains a component suspected of causing genetic defects.

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### Carcinogenicity

Contains a component suspected of causing cancer.

### Reproductive toxicity

Not classified.

### STOT-single exposure

May cause dizziness or drowsiness, weakness and fatigue.

### STOT-repeated exposure

Prolonged or repeated contact may dry skin.

### Aspiration hazard

Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.

### Additional information

#### Acute Health Hazards

**Symptoms/Injuries:** Harmful if inhaled. Causes serious eye irritation. May cause drowsiness and dizziness. Asphyxia by lack of oxygen: risk of death.

**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 breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death. This product contains chlorinated solvents, 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 Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

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**Symptoms/Injuries After Skin Contact:** Prolonged or repeated contact may dry skin

**Chronic Health Hazards:** 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.

Note to Physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

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## SECTION 12: Ecological information

### Toxicity

#### TETRACHLOROETHYLENE

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

LC50 Inhalation - Rat - 4100 ppm - 6 hour(s)

LD50 Skin - Rabbit - >10000 mg/kg

LD50 Oral - Rat - 2629 mg/kg

LC50 - *Daphnia magna* (water flea) - 18 mg/L - 48hr

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

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

#### TRICHLOROETHYLENE

LD50 Oral - Rat - 4920 mg/kg

LD50 Skin - Rabbit - > 20,000 mg/kg

LC50 Inhalation - Mouse - 8450 ppm



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### 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.

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## 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.

#### Waste treatment

RCRA Status: Waste solvent likely considered U228 (Trichloroethylene), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

#### Sewage disposal

Avoid release into the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

#### Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

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## SECTION 14: Transport information

### DOT (US)

UN Number: UN1950

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Aerosols, non-flammable, (each not exceeding 1 L capacity)

### IMDG

UN Number: UN1950

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Aerosols, non-flammable, (each not exceeding 1 L capacity)

### IATA

UN Number: UN1950

Class: 2.2

Packing Group: N/A

Proper Shipping Name: Aerosols, non-flammable, (each not exceeding 1 L capacity)

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## SECTION 15: Regulatory information

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

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### California Prop. 65 components

Chemical name: TRICHLOROETHYLENE

CAS number: 79-01-6

04/01/1988 - Cancer

01/31/2014 - Developmental toxicity

01/31/2014 - Male reproductive toxicity

Chemical name: TETRACHLOROETHYLENE

CAS number: 127-18-4

04/01/1988 - Cancer

### Canadian Domestic Substances List (DSL)

Chemical name: Ethene, trichloro-

CAS: 79-01-6

Chemical name: Ethene, tetrachloro-

CAS: 127-18-4

Chemical name: Carbon dioxide

CAS: 124-38-9

### Massachusetts Right To Know Components

Chemical name: Trichloroethylene

CAS number: 79-01-6

Chemical name: Perchloroethylene

CAS number: 127-18-4

### New Jersey Right To Know Components

Common name: TRICHLOROETHYLENE

CAS number: 79-01-6

Common name: TETRACHLOROETHYLENE

CAS number: 127-18-4

Common name: CARBON DIOXIDE

CAS number: 124-38-9

### Pennsylvania Right To Know Components

Chemical name: Ethene, trichloro-

CAS number: 79-01-6

Chemical name: Ethene, tetrachloro-

CAS number: 127-18-4

Chemical name: Carbon dioxide

CAS number: 124-38-9

### Toxic Substances Control Act (TSCA) Inventory

All chemicals are listed or exempt.

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### HMIS Rating

Re-Energize	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

### NFPA Rating



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## SECTION 16: Other information

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

### 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.

### Preparation information

Preparation by: Jessica Wilson

Preparation date: 10/11/2022

