

Force 100 (Liquid)

SDS Number: Force-S500I

Revision Date: 10/1/2021

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Wechem, Inc
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Product Identifier: Force 100 (Liquid)
SDS Number: Force-S500I
Product Code: S500
Revision Date: 10/1/2021
Product Use: Electrical & Mechanical Degreasing Solvent

Emergency Telephone Number:
INFOTRAC
1-800-535-5053

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HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Respiratory or skin sensitization, 1 Skin
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3
Health, Germ cell mutagenicity, 2
Health, Carcinogenicity, 1
Environmental, Hazards to the aquatic environment - Chronic, 3

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H341 - Suspected of causing genetic defects
H350 - May cause cancer
H412 - Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.

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P273 - Avoid release to the environment.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P302+350 - IF ON SKIN: Gently wash with plenty of soap and water.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry: Ingestion, eye, skin absorption, inhalation
Inhalation: Can cause irritation to upper respiratory tract, headache, drowsiness, narcosis, anesthesia, unconsciousness and possible death.
Skin Contact: Prolonged contact may cause irritation.
Eye Contact: May cause eye irritation.
Ingestion: Small amounts not likely to cause injury. Large amounts harmful or fatal.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
79-01-6	90-100%	Trichloroethylene

4 FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. If breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.
Skin Contact: Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.
Eye Contact: Promptly wash eyes with plenty of water while lifting eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Ingestion: DO NOT INDUCE VOMITING. Drink plenty of water. Do not give victim anything to drink if he is unconscious. Get medical attention immediately.

5 FIRE FIGHTING MEASURES

Flammability: Not Flammable or Combustible
Flash Point: None
Autoignition Temp: 770 F (410 C)
LEL: 8% (V)
UEL: 44.8% (V)

Extinguishing media: Foam, dry powder, carbon dioxide, water fog. Do not use water jet as an extinguisher, as this will spread fire.
 Special Fire fighting procedures: Wear a self-contained breathing apparatus MSHA / NIOSH (approved or equivalent), and full protective gear.

Hazardous combustion products: Hydrogen chloride, Chlorine, Phosgene, Carbon monoxide, Carbon dioxide.

Unusual Fire & Explosion Hazard: Vapors can travel to a source of ignition and back. Containers may explode in the heat of a fire.

6 ACCIDENTAL RELEASE MEASURES

Wear personal protection equipment. Evacuate surrounding areas.

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Remove all sources of ignition. Provide ventilation.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Absorb spill with inert material, (e.g.,vermiculite, dry sand or earth), then place into a chemical waste container.

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HANDLING AND STORAGE

Handling Precautions:

Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke when using product. Do not ingest. Eliminate all sources of ignition. Handle product only in closed system or provide adequate exhaust ventilation at machinery. Avoid inhalation of vapors/spray and contact with skin and eyes. Container must be kept tightly closed. Provide good ventilation.

Storage Requirements:

Keep away from heat, sparks, open flame, direct sunlight. Store in a tightly closed original container in a dry, cool and well-ventilated place. Do NOT use storage tank made of : Aluminum, aluminum alloy, or zinc. May attack some plastics, rubber and coatings.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Ventilation Requirement: General and/ or local to control airborne levels below exposure limits. An emergency eye wash/shower must be readily accessible to the work area.

Personal Protective Equipment:

Respiratory Protection: NOISH approved respirator, when necessary.

Protective gloves:Rubber/ chemical proof

Eye protection: Safety glasses/ goggles

Trichloroethylene cas#:(79-01-6) [90-100%]

Hygienic work practices: Wash with soap and water before handling food.

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Components with workplace control parameters

TWA 50 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
270 mg/m³ 1910.1000
Skin notation

STEL 200 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
1,080 mg/m³ 1910.1000
Skin notation

TWA 100 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967

CEIL 200 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967

Peak 300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z2
Z37.19- 1967

TWA 10 ppm USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment cognitive decrement Renal toxicity Suspected human carcinogen

STEL 25 ppm USA. ACGIH Threshold Limit Values (TLV)
Central Nervous System impairment cognitive decrement Renal toxicity Suspected human carcinogen
Potential Occupational Carcinogen See Appendix C See Appendix A

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless	Odor:	Chlorinated hydrocarbons
Physical State:	Liquid	Solubility:	Insoluble in water
Spec Grav./Density:	(H2O=1): 1.47 @ 20 Deg. C.	Freezing/Melting Pt.:	-121 F (-84.4 C)
Viscosity:	0.58 mPas @ 20 C	Flash Point:	None
Boiling Point:	87.760 mmHg	Octanol:	log Pow: 2.53
Flammability:	Not Flammable or Combustible	Vapor Density:	(Air=1): 4.53
Vapor Pressure:	9.9 kPa @ 25 C	Bulk Density:	NA
pH:	Not available	Auto-Ignition Temp:	770 F (410 C)
Evap. Rate:	Not available		

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STABILITY AND REACTIVITY

Chemical Stability:	Stable at room temperature and under normal conditions.
Conditions to Avoid:	Incompatible materials, ignition sources, and high temperatures / direct sunlight.
Materials to Avoid:	Strong alkalis. Reaction with strong alkali metal hydroxides will form dichloroacetylene which can spontaneously ignite in air. Strong oxidizing substances, amines. Avoid contact with metals such as: zinc powders, aluminum powders, magnesium powders, potassium, sodium. Avoid prolonged contact or storage with aluminum or its alloys.
Hazardous Decomposition:	Toxic gases of hydrogen chloride, chlorine, phosgene, carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur

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TOXICOLOGICAL INFORMATION

Inhalation:	Vapors may cause drowsiness and dizziness. In case of overexposure, organic solvents may depress the central nervous system causing dizziness an intoxication, and at very high concentrations unconsciousness and death.
Skin Contact:	Skin irritation. May cause an allergic skin reaction. Prolonged contact may cause redness, irritation and dry skin.
Eye Contact:	May cause temporary eye irritation.
Ingestion:	No specific symptoms noted.

Trichloroethylene cas#:(79-01-6) [90-100%]

Information on toxicological effects

Acute toxicity:

Oral LD50 LD50 Oral - rat - 4,920 mg/kg

Inhalation LC50 LC50 Inhalation - mouse - 4 h - 8450 ppm

Dermal LD50 LD50 Dermal - rabbit - > 20,000 mg/kg

Other information on acute toxicity no data available

Skin corrosion/irritation: Skin - rabbit - Severe skin irritation - 24 h

Serious eye damage/eye irritation: Eyes - rabbit - Eye irritation - 24 h

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Respiratory or skin sensitization: no data available

Germ cell mutagenicity: Laboratory experiments have shown mutagenic effects. In vitro tests showed mutagenic effects

Carcinogenicity:

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2A - Group 2A: Probably carcinogenic to humans (Trichloroethylene)

NTP: Reasonably anticipated to be a human carcinogen (Trichloroethylene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System):
May cause damage to organs.Specific target organ toxicity - repeated exposure (Globally Harmonized System):
no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. Causes skin irritation. Eyes Causes eye irritation.

Signs and Symptoms of Exposure: burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Exposure to and/or consumption of alcohol may increase toxic effects., Gastrointestinal disturbance, Kidney injury may occur., narcosis

Synergistic effects: no data available

Additional Information:

RTECS: KX4550000

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ECOLOGICAL INFORMATION

Trichloroethylene cas#:(79-01-6) [90-100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h.

LOEC - other fish - 11 mg/l - 10.0 d

NOEC - Oryzias latipes - 40 mg/l - 10.0 d

Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h.

and other aquatic invertebrates

Toxicity to algae IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h.

Persistence and degradability: Bioaccumulative potential:

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Does not bioaccumulate.

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

Dispose of according to Federal, State, and Local Regulations.

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TRANSPORT INFORMATION

Proper Shipping Name:

For 1 Gal: Consumer Commodity, ORM-D

For 5, 35, 55 Gal: Trichloroethylene, 6.1, UN 1710, PG III

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REGULATORY INFORMATION

[%] RQ (CAS#) Substance - Reg Codes

[90-100%] RQ(100LBS), Trichloroethylene (79-01-6) CERCLA, CSWHS, EPCRAWPC, GADSL, HAP, HWCRA, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, REACH, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

WARNING

This product can expose you to chemicals including Trichloroethylene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

RQ = Reportable Quantity
 CERCLA = Superfund clean up substance
 CSWHS = Clean Water Act Hazardous substances
 EPCRAWPC = EPCRA Water Priority Chemicals
 GADSL = Global Automotive Declarable Substance List (GADSL)
 HAP = Hazardous Air Pollutants
 HWCRA = RCRA Hazardous Wastes
 MASS = MA Massachusetts Hazardous Substances List
 NJHS = NJ Right-to-Know Hazardous Substances
 OSHAWAC = OSHA Workplace Air Contaminants
 PA = PA Right-To-Know List of Hazardous Substances
 PRIPOL = Clean Water Act Priority Pollutants
 PROP65 = CA Prop 65
 REACH = REACH List of Substances of Very High Concern (RSL)
 SARA313 = SARA 313 Title III Toxic Chemicals
 TOXICPOL = Clean Water Act Toxic Pollutants
 TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List)
 TSCA = Toxic Substances Control Act
 TXAIR = TX Air Contaminants with Health Effects Screening Level
 TXHWL = TX Hazardous Waste List

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OTHER INFORMATION

We believe the statements technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. ** Chemical listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not listed [e] Animal data only

N/A = Not available

N/D = Not determined

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