

# Safety Data Sheet

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Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** CLEANER & DEGREASER (NON-FLAMMABLE)

### Other means of identification

#### **SDS #**

Item # M-05131  
 M-05135  
 M-05137

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

**Recommended Use** Cleaning and degreasing.

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

**Supplier Address**  
 Ashburn Chemical Technologies  
 403 Wright Rd  
 Houston, TX 77041

### Emergency Telephone Number

**Company Phone Number** 832-399-1000  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, colorless liquid

**Odor:** Chlorinated solvent

### Classification

Skin irritation	Category 2
Eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure- central nervous system)	Category 3

### Signal Word

**DANGER**

### Hazard Statements

Causes skin irritation  
 Causes serious eye irritation  
 May cause cancer  
 May cause drowsiness or dizziness.  
 Suspected of causing genetic defects.  
 Harmful to aquatic life with long lasting effects



**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or DOCTOR if you feel unwell.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do not induce vomiting

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Toxic to aquatic life with long lasting effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Trichloroethylene	79-01-6	95-100

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST-AID MEASURES****First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Get medical attention immediately.
<b>Skin Contact</b>	Wash contact areas with soap and water. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Seek medical attention if irritation occurs.
<b>Inhalation</b>	Remove source of exposure or move person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell or are concerned.
<b>Ingestion</b>	Do not induce vomiting. Seek immediate medical assistance.
<b>Symptoms</b>	Skin contact may cause redness and irritation, defatting, dermatitis. Eye contact may eye redness, tearing, and blurred vision. Inhalation can cause serious nervous system depression. Symptoms may include burning sensation, cough, wheezing, laryngitis, shortness of breath, headache. Maybe harmful if inhaled Swallowing may cause abdominal irritation, nausea, vomiting and diarrhea. May cause gastrointestinal disturbance, Kidney injury. See SECTION 11 for delayed and chronic effects

**Notes to Physician**

The symptoms of chemical pneumonitis may not show up for a few days.

## 5. FIRE-FIGHTING MEASURES

**Suitable / Unsuitable Extinguishing Media**

Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use stream of water (could cause fire to spread)

**Specific Hazards Arising from the Chemical**

No open flames.

**Hazardous Combustion Products**

Carbon oxides and other oxides may be generated as products of combustion.

**Protective equipment / precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Avoid contact with skin or eyes.  
Avoid breathing mist/dust/spray  
See SECTION 8 for Personal Protective Equipment.

**Environmental Precautions**

Prevent entry into drains, waterways, rivers, lakes, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. See SECTION 12 for Ecological Information

**Methods for Clean-Up**

Absorb or cover with dry earth, sand or other non-combustible material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. See SECTION 13 for Waste Disposal

## 7. HANDLING AND STORAGE

**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing fumes, vapors, mists, spray. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. See SECTION 8 for Personal Protection. See SECTION 2 for Precaution Statements.

**Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from heat and open flame. Do not storage temperature above 40°C/120°F.

**Incompatible Materials**

Strong oxidizers, alkali metals, aluminum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

No exposure limits noted for ingredient(s),

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Trichloroethylene 79-01-6	STEL: 25 ppm TWA: 10 ppm	TWA: 100 ppm (vacated) TWA: 50 ppm (vacated) TWA: 270 mg/m <sup>3</sup> (vacated) STEL: 200 ppm (vacated) STEL: 1080 mg/m <sup>3</sup> Ceiling: 200 ppm	IDLH: 1000 ppm

<b>Engineering Controls</b>	Adequate ventilation. Maintain eye wash fountain and quick-drench facilities in work area.
<b>Eye/Face Protection</b>	Safety glasses with side shields or safety eyewear complying with an approved standard
<b>Skin and Body Protection</b>	Chemical / oil resistant clothing and gloves. Impervious gloves such as neoprene or solvex can be used
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate NIOSH standards.
<b>General Hygiene Considerations</b>	Avoid contact with skin and eyes. After handling this product, wash hands before eating, drinking, or smoking. See SECTION 4 for FIRST AID if needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Transparent	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	NA		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	84 - 86 °C / 184 -188 °F		
Flash Point	537 °C / 999 ° F	TCC	
Evaporation Rate	3.6		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	10.5%		
Lower Flammability Limit	8.0%		
Vapor Pressure	61 – 66 mmHg		
Vapor Density	4.53		
Specific Gravity	1.44 - 1.46		
Water Solubility	insoluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Viscosity	Not determined		
Total VOC (TVOC)	100% vol / 1460 g/l 12.0 Lb/gal		
Explosive Properties	Not determined		

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not reactive under normal conditions.
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Isolated from incompatible materials, oxidizers, heat, open flames.

**Incompatible Materials** Decomposes on heating on contact with hot surfaces or flames producing, toxic & corrosive fumes including, chlorine, phosgene, & hydrogen chloride.  
 Reacts with strong oxidants, causing fire & explosion hazard.  
 Reacts slowly with water influenced by light releasing corrosive, hydrochloric acid Producing toxic fumes.  
 Reacts with strong alkali producing dichloroacetylene.  
 Reacts violently with metal powders such as magnesium, aluminum, titanium, barium

**Hazardous Decomposition Products** Thermal decomposition and combustion are not expected to occur except under extreme conditions.

## 11. TOXICOLOGICAL INFORMATION

**Eye Contact** May cause eye irritation on eye contact.

**Skin Contact** Skin contact may cause redness and irritation, defatting, dermatitis.

**Inhalation** Maybe harmful if inhaled.

**Ingestion** May be harmful if swallowed.

**Symptom** See SECTION 4 for symptoms

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trichloroethylene 79-01-6	4290 mg/kg ( Rat )	> 20 g/kg ( Rabbit )	8000 ppm ( Rat ) 4 h 26300 ppm ( Rat ) 1 h

**Sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**STOT - single exposure** May cause drowsiness or dizziness.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Carcinogenicity** May cause cancer

Chemical Name	ACGIH	IARC	NTP	OSHA
Trichloroethylene 79-01-6	A2	Group 1	Reasonably Anticipated	X

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**NTP (National Toxicology Program)**

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** This product maybe harmful to plant and animal life is released into environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trichloroethylene 79-01-6	450: 96 h Desmodesmus subspicatus mg/L EC50 175: 96 h Pseudokirchneriella subcapitata mg/L EC50	31.4 - 71.8: 96 h Pimephales promelas mg/L LC50 flow-through 39 - 54: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 0.81 mg/L 24 h EC50 = 115 mg/L 10 min EC50 = 190 mg/L 15 min EC50 = 235 mg/L 24 h EC50 = 410 mg/L 24 h EC50 = 975 mg/L 5 min	2.2: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability** Not determined.

**Bioaccumulation** Not determined.

**Mobility**

Chemical Name	Partition Coefficient
Trichloroethylene	2.29

**Other Adverse Effects** Not determined

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**US EPA Wastes Number**

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Trichloroethylene 79-01-6	U228	Included in waste streams: F001, F002, F024, F025, F039, K018, K019, K020	0.5 mg/L regulatory level	

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes
Trichloroethylene 79-01-6	Category I - Volatiles		Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Trichloroethylene 79-01-6	Toxic

### 14. TRANSPORT INFORMATION

#### Note

If more than 100 lb (45kg) of this product is in one container, it exceeds the Report Quality of Trichloroethylene. "RQ" must be put before the DOT shipping name

**DOT**

**UN/ID No** UN1710  
**Proper Shipping Name** Trichloroethylene  
**Hazard Class / Packing group** 6.1, III

**IATA**

**UN/ID No** UN1710  
**Proper Shipping Name** Trichloroethylene  
**Hazard Class / Packing group** 6.1, III

**IMDG**

**UN/ID No** UN1710  
**Proper Shipping Name** Trichloroethylene  
**Hazard Class / Packing group** 6.1, III

**Marine Pollutant** This product may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

**International Inventories**

The component(s) of this product are listed on the chemical inventories of the following countries

Chemical Name	TSCA	DSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Trichloroethylene	X	X	X	X	X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Regulations****CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Trichloroethylene 79-01-6	100 lb 1 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

**SARA 311/312**

Trichloroethylene CAS# 2007-07-01  
 Acute Health Hazard, Chronic Health Hazard

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Trichloroethylene - 79-01-6	79-01-6	80-95	0.1

**CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trichloroethylene	100 lb	X	X	X

**California Proposition 65**

This product contains the following Prop 65 Chemical

Chemical Name	California Proposition 65
Trichloroethylene - 79-01-6	Carcinogen

## U.S. State RTK Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trichloroethylene 79-01-6	x	x	x

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	2	1	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	2	1	0	Not determined

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Note: Reviewed and updated

**Disclaimer**

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**End of Safety Data Sheet**