SAFETY DATA SHEET

Issuing Date 03-Aug-2015 **Revision Date** 06-Mar-2017 **Revision Number** 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name **CLEAN UP™ (Bulk)**

Other means of identification

Product Code(s) **615**

UN-Number UN1710

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Cleaners, degreasers, metal surface treatment product

Uses advised against No information available

Supplier's details

Manufacturer Address
Jet-Lube, LLC
930 Whitmore Dr.
Rockwall, Texas 75087
TEL: 972-771-1000
Toll Free: 1-800-669-6318

Emergency telephone number

Emergency Telephone Number CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Aspiration Toxicity	Category 1
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Acute Inhalation Toxicity – Dusts and Mists	Category 4
Specific Target Organ Toxicity (Single Exposure)	Category 3
Carcinogenicity	Category 1A

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **Danger**

Hazard Statements

• May be fatal if swallowed and enters airways
• Causes skin irritation
• Causes serious eye irritation
• Harmful if inhaled
• May cause respiratory irritation. May cause drowsiness or dizziness
• May cause cancer
•
• Causes damage to organs through prolonged or repeated exposure.

Appearance Clear water white **Physical State** Liquid. **Odor** Chlorinated

Precautionary Statements

Prevention

• Wash face, hands and any exposed skin thoroughly after handling.
• Avoid breathing dust/fume/gas/mist/vapors/spray.
• Contaminated work clothing should not be allowed out of the workplace.
• Keep away from heat/sparks/open flames/hot surfaces - No smoking.
• Wear protective gloves/protective clothing/eye protection/face protection.

General Advice

• Specific treatment (see supplemental first aid instructions on this label)

Eyes

• 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.

Skin

• IF ON SKIN: Wash with plenty of soap and water.
• Take off contaminated clothing and wash before reuse.
• If skin irritation or rash occurs: Get medical advice/attention.

Ingestion

• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
• Do NOT induce vomiting.

Fire

• In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage

• Store locked up.
• Store in a well-ventilated place. Keep cool.

Disposal

• Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Toxic to aquatic life with long lasting effects

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Trichloroethylene	79-01-6	90-100	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Protection of First-aiders Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Aspiration into lungs can produce severe lung damage. Eye irritation/reactions. Skin irritation.

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

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Move containers from fire area if you can do it without risk.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

Combustible material. Vapors may travel to source of ignition and flash back.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge Yes.

Protective Equipment and 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, protective equipment and emergency procedures

Personal Precautions Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Remove all sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Keep away from incompatible materials.

Incompatible Products Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

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

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields.
Skin and Body Protection Long sleeved clothing. Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.
Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	**Appearance**	Clear water white
Odor	Chlorinated	**Odor Threshold**	No information available

Property	Values	Remarks/ - Method
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	> 86 °C	None known
Flash Point	> 537 °C	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Specific Gravity	1.46	None known
Water Solubility	Negligible	None known
Solubility in other solvents	Completely soluble.	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	< 1.9 cSt (@ 40°C)	None known

Flammable Properties Not flammable

Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) 100
VOC (g/l) 1460.0

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Incompatible products.

Incompatible materials

Strong inorganic & organic acids, oxidizing agents.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, hydrogen chloride, phosgene from burning.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Vapors may irritate throat and respiratory system.
Eye Contact Causes serious eye irritation.
Skin Contact Causes skin irritation. May cause allergic skin reaction
Ingestion Potential for aspiration if swallowed.

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization May cause sensitization of susceptible persons. May cause sensitization by skin contact.
Mutagenic Effects No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. May cause cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Trichloroethylene	A2	Group 1	Reasonably Anticipated	X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP: (National Toxicity Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration Hazard May be fatal if swallowed and enters airways

Numerical measures of toxicity - Product
Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document:
LD50 Oral 15680971
LD50 Dermal 54786602
Inhalation
dust/mist 14.6 mg/L; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Trichloroethylene 79-01-6	EC50 96 h: = 450 mg/L (Desmodesmus subspicatus) EC50 96 h: = 175 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 31.4 - 71.8 mg/L flow-through (Pimephales promelas) LC50 96 h: 39 - 54 mg/L static (Lepomis macrochirus)	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	EC50 48 h: = 2.2 mg/L (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulation

Chemical Name	Log Pow
Trichloroethylene	2.29

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

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	U228

Component	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Trichloroethylene 79-01-6 (5-10)	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.	

Chemical Name	California Hazardous Waste
Trichloroethylene	Toxic

14. TRANSPORT INFORMATION

DOT

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Description	UN1710, Trichloroethylene, 6.1, III

TDG

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Description	UN1710, Trichloroethylene, 6.1, III

MEX

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Description	UN1710, Trichloroethylene, 6.1, III

ICAO

UN-Number	UN1710
Proper shipping name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Description	UN1710, Trichloroethylene, 6.1, III

IATA

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
ERG Code	160
Description	UN1710, Trichloroethylene, 6.1, III

IMDG/IMO

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
EmS No.	F-A, S-A
Description	UN1710, Trichloroethylene, 6.1, III

RID

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Description	UN1710, Trichloroethylene, 6.1, III

ADR

UN-Number	UN1710
Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Tunnel Restriction Code	(E)
Description	UN1710, Trichloroethylene, 6.1, III, (E)

ADN

Proper Shipping Name	Trichloroethylene
Hazard Class	6.1
Packing Group	III
Classification Code	T1
Special Provisions	None
Description	UN1710, Trichloroethylene, 6.1, III
Limited Quantity	5 L

15. REGULATORY INFORMATION

International Inventories

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Trichloroethylene	79-01-6	100	0.1

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

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

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Trichloroethylene	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Trichloroethylene	79-01-6	Carcinogen

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Trichloroethylene	X	X	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	**Health Hazard** 2	**Flammability** 1	**Instability** 0	**Physical and Chemical Hazards** –
HMIS	**Health Hazard** 2	**Flammability** 1	**Physical Hazard** 0	**Personal Protection** X

Prepared By
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Revision Note Updated company information

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet