



A CSW Industrials Company

SAFETY DATA SHEET

Issuing Date 09-May-2015

Revision Date 6-Mar-2017

Revision Number 1

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

GHS product identifier

Product Name CLEAN UP AEROSOL

Other means of identification

Product Code(s) 61542

UN-Number UN1950

Synonyms JET-LUBE® CLEAN UP

Recommended use of the chemical and restrictions on use

Recommended Use General purpose degreaser

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)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Carcinogenicity	Category 1B
Gases under pressure	Compressed gas

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word	Danger
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Hazard Statements

- Causes skin irritation
- May cause drowsiness or dizziness
- May cause cancer
- Toxic to aquatic life with long lasting effects
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- Contains gas under pressure; may explode if heated

**Appearance** Clear water white**Physical State** Aerosol.**Odor** Irritating**Precautionary Statements****Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not puncture or incinerate container.
- Do not expose to heat or store at temperatures above 49°C/120°F.
- Use with adequate ventilation.
- Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying.
- If you experience any symptoms listed on this label, increase ventilation or leave the area.
- Avoid breathing mist or vapor.
- Avoid breathing gas.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid release to the environment.

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 water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.

Inhalation

- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- If exposed or concerned: Get medical attention.

Storage

- Store locked up.
- Protect from sunlight. Store in a well-ventilated place
- Exposure to high temperature may cause can to burst.

Disposal

- Dispose of contents/container in accordance with local/regional/national regulations.
- Collect spillage.

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Toxic to aquatic life with long lasting effects

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Tetrachloroethylene	127-18-4	90 - 100	*
Carbon dioxide	124-38-9	1 - 5	*

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

4. FIRST AID MEASURE

Description of necessary first-aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse with water. Get medical attention if irritation develops and persists.
Skin Contact	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation. May cause redness and pain.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO₂, or water spray.

Unsuitable Extinguishing Media Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

Contents under pressure. Exposure to high temperature may cause can to burst. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Protective Equipment and Precautions for Firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Environmental Precautions

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Avoid release to the environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for Cleaning Up Stop the flow of material, if this is without risk. Collect spillage. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Storage Contents under pressure. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Do not handle or store near an open flame, heat or other sources of ignition. Exposure to high temperature may cause can to burst. Store in a well-ventilated place.

Incompatible Products Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetrachloroethylene (CAS 127-18-4)	Ceiling: 200 ppm TWA: 100 ppm	-	STEL: 100 ppm TWA: 25 ppm
Carbon dioxide 124-38-9	STEL = 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m ³ (vacated) TWA: 10000 ppm (vacated) TWA: 18000 mg/m ³ (vacated) STEL: 30000 ppm (vacated) STEL: 54000 mg/m ³	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³

Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:

Other Exposure Guidelines

US - Minnesota Haz Subs: Skin designation applies
Tetrachloroethylene (CAS 127-18-4) Skin designation applies.

Appropriate engineering controls

Engineering Measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear protective gloves such as: Viton®, Polyvinyl alcohol (PVA). Nitrile. Silver Shield®. Wear appropriate chemical resistant clothing.

Respiratory Protection

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Aerosol	Appearance	Clear water white
Odor	Irritating	Odor Threshold	50 ppm

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	Not available	None known
Melting Point/Range	-8.1 °F (-22.3 °C)	None known
Boiling Point/Boiling Range	250.3 °F (121.3 °C)	None known
Flash Point	None (Tag Closed Cup)	None known
Evaporation rate	Very fast.	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	1352.4 hPa estimated	None known
Vapor Density	5.76 (air = 1)	None known
Relative density	1.62	None known
Water Solubility	0.02 % (77 °F (25 °C))	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	No data available	None known
Percent volatile	97.7 % estimated	None known

Flammable Properties Not flammable

Explosive Properties No data available

Oxidizing Properties No data available

Other information

Partition coefficient (oil/water) 2.88

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks. Contact with incompatible materials. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Hydrogen chloride. Trace amounts of chlorine and phosgene. Carbon oxides. Halogenated materials. Carbonyl halides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Eye Contact

Direct contact with eyes may cause temporary irritation.

Skin Contact

Causes skin irritation.

Ingestion

Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrachloroethylene	> 2000 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	> 20.4 mg/L (Rat) 4 h
Carbon dioxide	-	-	470000 ppm (Rat)

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.

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

Sensitization This product is not expected to cause skin sensitization.

Mutagenic Effects No information available.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Tetrachloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Tetrachloroethylene (CAS 127-18-4) Reasonably Anticipated to be a Human Carcinogen.

Reproductive Toxicity This product is not expected to cause reproductive or developmental effects.

STOT - single exposure May cause drowsiness and dizziness.

STOT - repeated exposure No information available.

Aspiration Hazard May be an aspiration hazard.

Numerical measures of toxicity - Product

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 2691.8162 mg/kg; Acute toxicity estimate

LD50 Dermal 3305.1284 mg/kg; Acute toxicity estimate

Inhalation dust/mist 20.4779 mg/l; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Tetrachloroethylene 127-18-4		LC50 96 h: = 19.1805 mg/L LC50 96 h: = 4.73 – 5.27 mg/L (Oncorhynchus mykiss)		

* Estimates for product may be based on additional component data not shown.

Persistence and Degradability No information available.

Bioaccumulation No information available.

Partition coefficient n-octanol / water (log Kow)

Tetrachloroethylene 2.88

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Hazardous waste code	D039: Waste Tetrachloroethylene F001: Waste Halogenated Solvent - Spent Halogenated Solvent Used in Degreasing F002: Waste Halogenated Solvent - Spent Halogenated Solvent
US RCRA Hazardous Waste U List:	Reference Tetrachloroethylene (CAS 127-18-4) U210
Contaminated Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT

UN-Number	UN1950
Proper shipping name	Aerosols
Hazard Class	2.2
Subsidiary Class	6.1
Packing Group	III
Description	UN1950, AEROSOLS, 2.2
Emergency Response Guide Number	126

IDG

UN-Number	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Description	UN1950, AEROSOLS, 2.2

MEX

UN-Number	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Description	UN1950 Aerosols, 2.2,

ICAO

UN-Number	UN1950
Proper shipping name	Aerosols
Hazard Class	2.2
Description	UN1950, AEROSOLS, 2.2

IATA

UN-Number	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
ERG Code	2P
Description	Aerosols, non-flammable, containing substances in Division 6.1, Packing Group III, Limited Quantity

IMDG/IMO

UN-Number	UN1950
Proper Shipping Name	AEROSOLS, MARINE POLLUTANT
Hazard Class	2.2
EmS No.	Not available.
Description	UN1950, Aerosols, 2.2

RID

UN-Number	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Classification Code	5A
Description	UN1950 Aerosols, 2.2,

ADR

UN-Number	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Classification Code	5A
Description	UN1950 Aerosols, 2.2,

ADN

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.2
Classification Code	5A
Special Provisions	190, 327, 625
Description	UN1950 Aerosols, 2.2,
Hazard Labels	2.2
Limited Quantity	LQ2
Ventilation	VE04

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

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

U.S. State Regulations**California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
 Tetrachloroethylene (CAS 127-18-4) Listed: April 1, 1988

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
Carbon dioxide	X	X	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection B

Prepared By Product Stewardship
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 1-800-572-6501

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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