



<< N/E = Not established N/AP = Not Applicable N/AV = Not Available C.O.C = Cleveland Open Cup>>

SECTION I: MATERIAL IDENTIFICATION AND USE

Product Name: ATTAX HEAVY-DUTY DEGREASER
Product Codes: 19-0105, 19-0045, 19-0001
Material Intended Use: Heavy Duty Degreasing Syrup
Chemical Family: Proprietary complex mixture/ preparation
CAS number: N/AP
Manufacturer's Name: WORX Environmental Products Inc.
Address: Unit 10, 2305 - 52nd Ave SE
City & Province: Calgary, AB T2C 4X7

Emergency Telephone: 403-273-7600 or 1-800-424-9679
E-mail of the competent Person responsible for the Safety Data Sheet: worxrd@worx.ca

SECTION II: HAZARDS IDENTIFICATION**2.1 Classification of the mixture**

Flammable liquid (Category 4),
Aspiration hazard (Category 1)
Eye irritation (Category 2B)

2.2 Label elements**2.2.1 Label elements**

Hazard pictogram(s): Aspiration

Hazard Signal word(s): Danger

Hazard statement(s):

Combustible liquid
May be fatal if swallowed and enters airways.
Causes eye irritation

Precautionary Statement(s):

Prevention:

Store in well-ventilated place.
Keep cool.
Keep away from flames and hot surfaces - No smoking.
Wear protective gloves/ eye protection.
In case of fire: Use water or dry foam for extinction
Wash skin and eyes thoroughly after handling
Dispose of contents/container in accordance with local regulations.

Response:

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 attention.
IF SWALLOWED: Immediately consult a physician. DO NOT induce vomiting.



Other Hazards: no hazard known.

**SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient(s)	% W/W	CAS No.
d-Limonene	5-10	5989-27-5
Glycol*	7-13	1569-01-3

*Glycol listed is a non-hazardous, non-toxic and is NOT Ethylene Glycol Monobutyl Ether.

The specific chemical identity is being withheld as a trade secret.

SECTION IV: FIRST AID MEASURES**4.1. Description of first aid measures**

- Eyes: Check for and remove any contact lenses. Do not rub eyes. Immediately flush with warm running water, holding the eyelids apart, for 15 minutes. Call a physician if irritation develops.
- Skin: Remove contaminated clothing and shoes. Wash affected skin with soap and water. See physician if irritation develops.
- Ingestion: No toxic effect is expected, but as a precaution drink a glass of water or milk to dilute. Consult a physician if nausea develops.
- Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

May cause lungs damage if swallowed and enters airways.

May cause eye irritation.

4.3 Indication of the immediate medical attention and special treatment needed: Treat symptomatically.**SECTION V: FIRE FIGHTING MEASURES****5.1 Extinguishing media**

Suitable Extinguishing Media: Extinguish preferably with water or dry foam
Unsuitable Extinguishing Media: Not applicable.

5.2 Special hazards arising from the substance or mixture: Product is combustible and a slip hazard.**5.3 Protective equipment:** Not applicable.**5.4 Flammability classification (OSHA 29 CFR 1910.106) (Hazcom 2012):** Combustible liquid (Category 4)**5.5 Additional Information:** Will not sustain flame <162°F if the ignition is removed; therefore, under normal operating conditions the UEL and LEL are not applicable.**SECTION VI: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Small spill: Use appropriate tools to wipe up the product. Rinse contaminated area with water. Large spill: Stop the leak if possible. Ventilate the area involved. Block release of the chemical from sewer or storm



drains. Contain and clean-up the spill. Observe all personal protection equipment recommendations. Ensure personal protection during removal of spillages. Eliminate all ignition sources if safe to do so. Local authority should be advised if significant spill cannot be contained.

For emergency responders: Use personnel protection recommended in Section 8

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so.
Avoid discharge into drains, water courses or onto the ground

6.3 Methods and material for containment and cleaning up
Do not release large quantities into the surface water or into drains.
Wear suitable gloves and eye/face protection.
Remove or make safe all sources of ignition. Rinse remaining liquid with water

6.4 Reference to other sections See Also Section 7, 8, 13.

6.5 Additional Information: For waste Disposal: Follow local regulations for discharge of waste effluent.

SECTION VII: SAFE HANDLING AND STORAGE

7.1 Precautions for safe handling Use only in well-ventilated areas if significant misting will occur. If irritation develops in nose or throat leave the area and ventilate area prior to re-entry. Keep away from oxidizing, reducing agents. Keep away from fire, sparks and heated surfaces - no smoking.

7.2 Conditions for safe storage, including any incompatibilities Store in a cool, dry, well-ventilated place. Do not use or store near heat or open flame. Do not store and transport with oxidizers etc. Keep container closed when not in use. Storage Temperature < 50 °C.

7.3 Incompatible materials: Oxidizing agents, Strong Acids

7.4 Additional Information: When product is used in confined space, the use of proper ventilation is required.

SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits:

US. Workplace Environmental Exposure Level (WEEL) Guides

D-limonene (CAS 5989-27-5) TWA 165.5 mg/m³

8.1.2 Biological limit value: Biological limit values are not available for this product.

8.2 Engineering Controls: provide good ventilations. Ensure that eyewash stations and safety showers are proximal to the work-station location.

8.3 Personal protection equipment (PPE)

Protective Handwear:	Nitrile gloves recommended preventing drying of hands.
Protective Eyewear:	Safety glasses with side shields or goggles
Other protective clothing:	Not required.
Respiratory Apparatus:	None required, however if applicable results in significant misting of product respiratory protection is recommended. If needed, use a MSHA/NIOSH approved half mask air purifying respirator with carbon filters.



SAFETY DATA SHEET

ATTAX HEAVY-DUTY DEGREASER

Local/mechanical exhaust: Not required.

8.3.1 Environmental Exposure Controls: Adequate ventilation must be used. Guarantee sufficient ventilation during and after use, in order to prevent vapor accumulation.

SECTION IX: PHYSICAL DATA

Physical State:	Liquid	Odor:	Peac
Appearance:	Gold*	Odor Threshold:	h N/E
Specific Gravity:	0.870	Vapor Pressure:	N/Av
Vapor Density :(Air=1)	N/Av	Evaporation rate:	N/E
Boiling Point: (°C.)	N/Av	Freezing Point: (°C.)	-40
Solubility in Water:	Soluble	pH factor:	10-11
Flash Point:	72°C (162°F)	% Volatile:	N/Av
	C.O.C		
Explosive limits	N/Av	Oxidizer	N/E
Water solubility	N/Av	Viscosity	N/E
Partition coefficient	N/Av	Auto ignition temperature	N/E
Decomposition Temperature	N/Av	Explosive properties	N/E

*Within the first 48 hours of being blended, the product is light gold in colour and is visibly clear. Over a period of 2 weeks the colour with slightly darken into and amber colour, with no impact to the product,

SECTION X: STABILITY AND REACTIVITY DATA

10.1 Reactivity: Strong oxidizing agents, strong reducing acids.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Can react if in contact with – strong oxidizing agents.

10.4 Conditions to avoid: Avoid contact with heat and ignition sources.

10.5 Incompatible materials: Strong oxidizing agents, strong reducing acids

10.6 Hazardous Decomposition Product(s): Carbon monoxide, Carbon dioxide.

10.7 Hazardous polymerization: Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

11.1.1 Information on likely routes of exposure. Signs and Symptoms of short term exposure:

Inhalation: May slightly irritate respiratory system, if used in poorly ventilated area
Ingestion: No toxic effects are expected, but consult a physician if nausea develops.
Skin Contact: Prolonged contact may cause slight irritation, dryness.
Eye Contact: May cause eye irritation. Monogoggles recommended if significant misting of product will occur.

11.1.2 Mixtures

Acute Oral Toxicity Estimate: Terpenes Hydrocarbon: LD50 (oral, rabbit) 5,000 mg/kg
Glycol: LD50 (oral rat) 2,000-4,000 mg/kg
Acute Dermal Toxicity Estimate: Terpenes Hydrocarbon: LD50 (dermal, rabbit) 5,000 mg/kg



SAFETY DATA SHEET

ATTAX HEAVY-DUTY DEGREASER

Glycol: LD50 (dermal, rat) 2,000-4,000 mg/kg

Acute Inhalation Toxicity Estimate: N/Av
Irritation: Causes eye irritation.
Corrosivity: Not to be expected.
Carcinogenicity Data: The ingredients of this product are not classed as carcinogenic by ACGIH, IARC, OSHA
Reproductive Data: None.
Mutagenicity Data: None.
Skin sensitization: Is not a skin sensitizer

11.2 Chronic effects (humans): N/Av

11.3 Numerical Measure of Toxicity: N/Av

SECTION XII: ECOLOGICAL INFORMATION

12.1 Toxicity

96 hour LC50 (Tilapia Nilotica) = 22.6 mg/l
96 hour LC50 (Rainbow trout) = 20 mg/l
48 hour EC50 (Daphnia magna) = 27ppm
72 hour EC50 (Raphidocelis subcapitata) = 40 mg/l

12.2 Persistence and degradability: Readily biodegradable

12.3 Bioaccumulative potential Not Available

12.4 Mobility in soil Not Available

12.5 Results of PBT and vPvB assessment Not Available.

12.6 Other adverse effects: None

SECTION XIII: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Follow treatment/disposal applicable local, provincial, and federal regulations. This material is readily biodegradable in aerobic and anaerobic conditions. It is not expected to bioaccumulate.

13.2 Contaminated Packaging: N/Av

13.3 Additional Information Avoid release to the environment.

SECTION XIV: TRANSPORTATION INFORMATION

14.1 ADR Classification Not Regulated

14.2 US 49 CFR/DOT (Department of Transportation) Not Regulated

14.3 TDG (Canada Transport of Dangerous Goods) Not Regulated

14.4 ICAO/IATA Not Regulated

14.5 IMO/IMDG Not Regulated

14.6 Marine Pollutant Not Regulated

**SECTION XV: REGULATORY INFORMATION****15.1. US Federal Information:**

OSHA: This material is classified as a "hazardous chemical" under OSHA regulations (29 CFR 1910.1200). Hazardous classification:

Combustible liquid (Category 4)
Aspiration hazard (Category 1)
Eye irritation (Category 2B)

USA TSCA (Toxic Substance Control Act): All chemicals listed

SARA TITLE III: Sec.302. 40 CFR 355: No extremely hazardous substances are present in this material.

SARA TITLE III: Sec.313. 40 CFR 372 This product does not contain any toxic chemicals subject to the reporting requirements of SARA (III) Section 313 of the Emergency Planning and Community Right-to-Know Act.

SARA TITLE III: Sec.311 and 312. 40 CFR 370 MSDS Requirements. Hazardous Classes: Fire Hazard; Acute Health Hazard. Under SARA Section 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is low, for extremely hazardous substances and 10,000 pounds for all the other hazardous chemicals.

US State Right to Know Law**Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986:**

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels under which would be subject to the proposition.

International information

Canadian Environmental Protection Act (CEPA) All ingredients listed appear on the Domestic Substances List (DSL)

15.2 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union (EINECS/ELINCS):
Canada WHMIS Classification:

All chemicals listed
Class B 3, Combustible Liquid, Class D 2B (Mild Eye irritation)

15.3 Chemical Safety Assessment: COMBUSTIBLE LIQUID, ASPIRATION HAZARD, IRRITANT TO EYES

SECTION XVI: ADDITIONAL INFORMATION

Information for this Safety Data Sheet was prepared from sources considered reliable. While every effort has been made to ensure full disclosure of product hazards, data is not available



SAFETY DATA SHEET

ATTAX HEAVY-DUTY DEGREASER

in some cases and is so stated where applicable. The manufacturer assumes no liability or responsibility, and no warranty is expressed or implied, in cases where products are mishandled, misused or instructions are not strictly observed. Each recipient of this SDS is encouraged to study it carefully to fully understand this product

SECTION XVII: PREPARATION INFORMATION			
Prepared by: WORX Environmental Products	Telephone: 1-800-424-9679	Date: June 20, 2018	Replaces: April 19, 2017