Safety Data Sheet
DEGREASE 20 +

SDS Revision Date: **11/01/2021**

1. Identification

1.1. Product identifier

Product Identity	DEGREASE 20 +
Alternate Names	90-306, Blended Formula, Fast-Drying Degreaser-5 gallon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	It is a heavy-duty non-flammable, non-conductive, fast-drying degreaser.
Application Method	Read all precautions and instructions carefully before and after use.

1.3. Details of the supplier of the safety data sheet

Company Name	ComStar International Inc. 20-47 128th Street, College Point, NY 11356
Telephone No.	718-445-7900 800-328-0142 Fax: 718-353-5998

Emergency 24 HR response No: 1-800-424-9300 & 703-527-3887 CHEMTREC

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315	Causes skin irritation.
Eye Irrit. 2; H319	Causes serious eye irritation.
Acute toxicity inhal. 4; H332	Harmful if inhaled
Specific target organ toxicity-single exposure, narcotic effects. 3; H336	May cause drowsiness or dizziness
Carc. 1B; H350	May cause cancer
Specific target organ toxicity-single exposure, narcotic effects. 1; H370	Causes damage to organs
Specific target organ toxicity-repeated exposure. 2; H373	Causes damage to organs through prolonged or repeated exposure

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness and dizziness.
H350 May cause cancer.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

[Prevention]:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.

[Response]:
P301+310 If swallowed: Immediately call a poison center or doctor / physician.
P302+352 If on skin: Wash with plenty of soap and water.
P304+312 If inhaled: Call a poison center or doctor / physician if you feel unwell.
P305+351+338 If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+313 IF exposed or concerned: Get medical advice / attention.
P321 Specific treatment (see information on this label).
P331 Do NOT induce vomiting.
P332+313 If skin irritation occurs: Get medical advice / attention.
P337+313 If eye irritation persists: Get medical advice / attention.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.
[Storage]:
P403+**P233** Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.
P410 Protect from sunlight.
[Disposal]:
P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
PERCHLOROETHYLENE CAS#: 127-18-4	100	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity inhal. 4; H332 Specific target organ toxicity-single exposure, narcotic effects. 3; H336 Carc. 1B; H350 Specific target organ toxicity-single exposure, narcotic effects. 1; H370 Specific target organ toxicity-repeated exposure. 2; H373	

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Aspiration hazard. If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Wash skin with soap or mild detergent and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning.

5. Fire-fighting measures

Fire and Explosion Hazards: Negligible fire hazard.

Extinguishing Media: carbon dioxide, regular dry chemical large fires: Use regular foam or flood with fine water spray.

Fire Fighting: Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile).

Flash point: No data available.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental release measures

Soil Release:
Dig holding area such as lagoon, pond or pit for containment. Dike for later disposal. Absorb with sand or other non-combustible material.

Water Release:
Absorb with activated carbon. Remove trapped material with suction hoses. Subject to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). Keep out of water supplies and sewers.

Occupational Release:
Avoid heat, flames, sparks and other sources of ignition. Stop leak, if possible, without personal risk. Small liquid spills: Absorb with sand or other non-combustible material. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry. Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

7. Handling and storage

Store in a cool, dry, ventilated area away from sources of heat or ignition. Isolate from flammable materials. Protect from direct sunlight. Wear special protective equipment (Sec. 8) for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of

the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

PERCHLOROETHYLENE- 127-18-4

Airborne Exposure Limits: -
OSHA Permissible Exposure Limit (PEL): 100 ppm (TWA), 200 ppm (ceiling), 300 ppm/5min/3-hour (max)
-ACGIH Threshold Limit Value (TLV): 25 ppm (TWA), 100 ppm (STEL); listed as A3, animal carcinogen

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, wear a supplied air, full-facepiece respirator, airline hood, or full-facepiece self-contained breathing apparatus.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full-face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Clothing: Wear appropriate chemical resistant clothing.
Gloves: Wear appropriate chemical resistant gloves.

Respirator: The following respirators and maximum use concentrations are drawn from NIOSH and/or OSHA.

At any detectable concentration - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive- pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure- demand or other positive-pressure mode.

Escape - Any air-purifying full-facepiece respirator (gas mask) with a chin-style, front-mounted or back-mounted organic vapor canister. Any appropriate escape-type, self-contained breathing apparatus.

For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive- pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure- demand or other

positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

9. Physical and chemical properties

Appearance	Clear Liquid
Odor	Mild perfumed Citrus
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	-19 °C (-2 °F)
Initial boiling point and boiling range	121 °C (250 °F)
Flash Point	Not determined
Evaporation rate (Ether = 1)	0.1
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** 135C(275F): NA **Upper Explosive Limit:** 199C(390F): NA
Vapor pressure (Pa)	13 mmHg @ 20 °C (68 °F)
Relative vapor density	5.8 @ 20 - 25 °C (68 - 77 °F) (Air = 1.0)
Vapor Density	1.62 @ 25 °C (77 °F) Reference substance: (water = 1)
Specific Gravity	Not Measured
Solubility in Water	insoluble
Partition coefficient n-octanol/water (Log Kow)	Log Pow: 2.88
Auto-ignition temperature	(ASTM D 2155): NA
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Volatiles (% by weight)	NA
Octanol/Water Partition Coefficient	NA

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No hazards to be specially mentioned.

10.4. Conditions to avoid

Moisture, light, heat and incompatibles.

10.5. Incompatible materials

Strong acids, strong oxidizers, strong alkalis, especially NaOH, KOH; finely divided metals, especially zinc, barium, lithium. Slowly corrodes aluminum, iron and zinc.

10.6. Hazardous decomposition products

Carbon dioxide and carbon monoxide may form when heated to decomposition. Hydrogen chloride gas and phosgene gas may be formed upon heating. Decomposes with moisture to yield trichloroacetic acid and hydrochloric acid.

11. Toxicological information

TETRACHLOROETHYLENE:
Irritation Data: 810 mg/24-hour(s) skin-rabbit severe; 500 mg/24-hour(s) skin-rabbit mild; 162 mg eyes-rabbit mild; 500 mg/24-hour(s) eyes-rabbit mild

Toxicity Data: 4100 ppm/6-hour(s) inhalation-rat LC50; >10000 mg/kg skin-rabbit LD50 (Dow); 2629 mg/kg oral-rat LD50

Carcinogen Status: NTP: Anticipated Human Carcinogen; IARC: Human Limited Evidence, Animal Sufficient Evidence, Group 2A; ACGIH: A3 -Confirmed Animal Carcinogen; EC: Category 2

Local Effects: Irritant: inhalation, skin, eye

Acute Toxicity Level: Moderately Toxic: ingestion Slightly Toxic: inhalation

Target Organs: central nervous system

Medical conditions aggravated by exposure: eye disorders, heart or cardiovascular disorders, kidney disorders, liver disorders, nervous system disorders, skin disorders and allergies

Tumorigenic Data: Available.

Mutagenic Data: Available.

Reproductive Effects Data: Available.

Additional Data: May be excreted in breast milk. Alcohol may enhance the toxic effects. Stimulants such as epinephrine may induce ventricular fibrillation.

12. Ecological information

12.1. Toxicity

This product is not expected to be toxic to aquatic organisms.

Aquatic Ecotoxicity

Fish toxicity: 8430 ug/L 96-hour(s) LC50 (Mortality) Flagfish (Jordanella floridae)

Invertebrate toxicity: 7500 ug/L 48-hour(s) EC50 (Immobilization) Water flea (Daphnia magna)

Algal toxicity: 509000 ug/L 96-hour(s) EC50 (Photosynthesis) Diatom (Skeletonema costatum)

Bioconcentration: 49 ug/L 1–21-hour(s) BCF (Residue) Bluegill (Lepomis macrochirus) 3.43 ug/L
Environmental Fate: When released into the soil, this material is expected to quickly evaporate. When released into the soil, this material may leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released to water, this material is expected to quickly evaporate. When released into water, this material is not expected to biodegrade. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

Environmental Toxicity: The LC50/96-hour values for fish are between 1 and 10 mg/l. The LC50/96-hour values for fish are between 10 and 100 mg/l. This material is expected to be toxic to aquatic life.

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil No data available

13. Disposal considerations

13.1. Waste treatment methods

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1879	UN1879	UN1879
14.2. UN proper shipping name	UN1879 Tetrachloroethylene	UN1879 Tetrachloroethylene	UN1878 Tetrachloroethylene
14.3. Transport hazard class(es)	**DOT Hazard Class: 6**.1	**IMDG: 6**.1 **Sub Class:** Not Applicable	**Air Class: 6**.1
14.4. Packing group	III	III	III

14.5. Environmental hazards

IMDG Marine Pollutant: Yes (Tetrachloroethylene)

14.6. Special precautions for user

No further information

15. Regulatory information

U.S. REGULATIONS: CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):
TETRACHLOROETHYLENE (PERCHLOROETHYLENE): 100 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES
(40 CFR 355 Subpart B): Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355 Subpart C): Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370 Subparts B and C):
ACUTE: Yes
CHRONIC: Yes
FIRE: No
REACTIVE: No
SUDDEN RELEASE: No
SARA TITLE III SECTION 313 (40 CFR 372.65): TETRACHLOROETHYLENE (PERCHLOROETHYLENE)
OSHA PROCESS SAFETY (29 CFR 1910.119): Not regulated.
STATE REGULATIONS:
California Proposition 65:
Known to the state of California to cause the following: TETRACHLOROETHYLENE (PERCHLOROETHYLENE) Cancer (Apr 01, 1988)

CANADIAN REGULATIONS: WHMIS CLASSIFICATION: D2

NATIONAL INVENTORY STATUS:
U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed. CANADA INVENTORY (DSL/NDSL): Not determined.

16. Other information

NFPA Ratings: Health: 2 Flammability: 0 Reactivity: 0

Label Hazard Warning:

Warning, harmful if swallowed, inhaled, or absorbed through skin. Causes irritation to skin, eyes, and respiratory tract. Affects central nervous system, liver, and kidneys. Suspect cancer hazard. May cause cancer. Risk of cancer depends on level and duration of exposure.

Label Precautions: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Label First Aid: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, do no induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician

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