



TECHNICAL DATA SHEET

ORANGE 90 Degreaser

DESCRIPTION: Natural citrus water-soluble solvent degreaser, drain cleaner, and deodorizer concentrate. This multi-purpose cleaner strips grease and heavy oil deposits from virtually any surface.



Advantages:

All natural, solvent degreaser. Contains a blend of 90% d-limonene and 10% detergent surfactants for 100% activity.

Excellent choice for removing those tough-to-clean substances like tar, gum and adhesives.

Declogs and maintains drain lines and grease traps.

Will quickly penetrate and dissolve grease, oil, dirt, cosmolene, rubber marks, carbon, creosote, inks, and many other stains.

Specifications:

Physical Form	Liquid
Color	Pale Yellow
Scent	Citrus
Specific Gravity	.84
Total Solids	10%
Total Solvent	90%

Directions:

Removing tar, gum, adhesives, etc.: Apply product full strength. Allow time for penetration. Agitate, wipe, or rinse away soils.

Declogging and maintaining drain lines and grease traps: Use weekly to keep drains free flowing and sanitary. Pour 8 ounces down drain. Let stand for 10 minutes, then flush drain with hot water. If drain is slow, repeat every 2 to 3 days until drain flows freely.

Deodorizing: Add 4 ounces to a gallon of cold water. Spray or mop onto surface. Controls odors around dumpsters, septic tanks, sewage treatment plants, kennels, etc. Can be applied by drip method or fogging around sewage treatment plants.

Degreasing: For general cleaning and degreasing, use 4 ounces to a gallon of water. Let stand for several minutes, then rinse thoroughly. Dilution will vary depending on the severity of the soil.

For engines and machinery, use product full strength. Spray, brush or sponge a liberal amount of ORANGE 90 onto surface. Allow 5 minutes to penetrate thoroughly. Rinse with a hose, pressure washer, or steam equipment. Use a hot rinse for best results.

CAUTION

MAY CAUSE IRRITATION TO EYES & SKIN
HARMFUL IF SWALLOWED
KEEP OUT OF REACH OF CHILDREN

Shipping Weight in pounds:

Case 4 Plastic Gallons 30.9 pounds
5 gallon Plastic Tighthead 43.5 pounds



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MATERIAL SAFETY DATA SHEET

Prepared According to 29 CFR 1910, 1200

N/A (Not Applicable) N/E (Not Established)

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Orange 90
GENERIC NAME: Degreaser

CHEMICAL FAMILY: Liquid Mixture
PROPER SHIPPING NAME: Terpene Hydrocarbons, N.O.S., 3, PGIII, UN2319

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH _____ 1
FLAMMABILITY _____ 2
REACTIVITY _____ 0
PERSONAL PROTECTION _____ B

HAZARD RATING

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS#	TLV	% WT (OPT)
Orange Terpenes	5989-27-5	N/E	<100%

SECTION III - PHYSICAL DATA

PHYSICAL DESCRIPTION: Colorless to pale yellow oil, citrus scent
BOILING RANGE (°F): N/E
VAPOR PRESSURE: N/E
% VOLATILE: <100%
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: .84
EVAPORATION RATE: N/E
pH:

SECTION IV - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: None normally required
PROTECTIVE GLOVES: Rubber or neoprene
EYE PROTECTION: Chemical safety goggles
VENTILATION: Room ventilation is normally adequate
OTHER PROTECTIVE EQUIPMENT: Sufficient to prevent skin contact. Eyewash and shower located near the workplace.

SECTION V - REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents

SECTION VI - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 115°F TCC
UPPER EXPLOSIVE LIMIT: N/E **LOWER EXPLOSIVE LIMIT:** N/E
EXTINGUISHING MEDIA: Water spray, dry chemicals, foam or carbon dioxide
SPECIAL FIRE FIGHTING PROCEDURES: Treat as a chemical fire. Use self contained breathing apparatus and evacuate all unnecessary personnel from the area
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: CO or CO2 and smoke on combustion

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII - FIRST AID

EYES: Flush with water for at least 15 minutes, be sure to keep eyelids opened. Get immediate medical attention if irritation persists.

SKIN: Wash with plenty of soap and water. Wash contaminated clothing before wearing. Get medical attention if irritation persists.

INGESTION: Give milk or water to dilute. INDUCE VOMITING. Get immediate medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: If affected by fumes, remove victim to fresh air. If person is having difficulty in breathing, perform artificial respiration and get immediate medical attention. Aspiration of substantial amounts of irritant liquids into the lungs can be fatal.

SECTION VIII - HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE (Primary Route of Entry)

SKIN: Irritant

EYES: Severe irritation

INHALATION: Irritation to respiratory tract, nausea, dizziness or headache

CARCINOGENS: None suspected

NTP: **OSHA:** **IARC:** **ACGIH:**

OTHER:

SECTION IX - STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Use common sense and sound industrial hygiene practices when handling this material as well as any other materials. Keep container closed when not in use. Wash hands after handling. Keep out of reach of children. Wear appropriate personal protection to avoid eye and skin contact.

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SECTION X - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all ignition sources. Wear necessary personal protective equipment. Evacuate all unnecessary personnel. Dike area to prevent spreading of the spilled material. Cover with an inert absorbent (sand, clay, etc.), shovel into appropriate containers, and dispose of in accordance with federal, state, and local regulations.

EMPTY CONTAINERS DISPOSAL: Any disposal practices must be in compliance with federal, state and local laws. Any questions regarding disposal should be directed to the proper government agency.