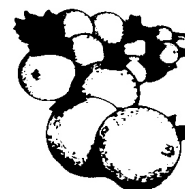


TECHNICAL DATA SHEET

ORANGE 88

Degreaser

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



Advantages:

Non corrosive, non flammable, contains no petroleum distillates.

The safe answer to those tough degreasing, cleaning, drain and grease trap maintaining, and odor control problems.

Powerful, multi purpose, use to:

1. Keep grease traps open, maintain drain flow
2. Degrease trucks and heavy equipment
3. Clean engine and parts
4. Remove tar and asphalt

Leaves a fresh citrus scent.

Specifications:

Physical Form	Free flowing liquid
Color	Orange
Scent	Citrus
Specific Gravity	1.00 ± .05
Density	8.62 lbs. per gallon
Foam Test 1% Solution	Initial — 55mm
pH Conc.	12.0 ± .5
Total Solids	8.0 ± .5
Total Solvent	5.2 ± .1

Directions:

Engine Degreasing, Parts Cleaner: Dilute 1 part degreaser to 4 parts water. Brush or spray onto surface to be cleaned. Allow to stand 3-5 minutes for deep penetration. Rinse thoroughly with clear water.

Tar and Asphalt Removal: Apply undiluted to soiled surface by spraying or mopping. Agitate with brush if necessary until soil is emulsified. Rinse thoroughly with clear water. Do not allow to dry on surface.

Pressure Washing Trucks and Heavy Equipment: Dilute 1 part degreaser to 20 parts water. Spray solution on surface to be cleaned or degreased. Agitate heavily soiled areas with brush if necessary. Rinse with clear water. Do not allow to dry on surface.

Drain Maintainer: Add 3 to 5 ounces to drain, let stand for 5 to 10 minutes. Flush with water.

Grease Trap Maintainer: Pour 5 ounces daily into grease trap. For traps over 20 feet capacity, add 8 to 10 ounces DAILY.

All Purpose Degreasing: Spray or mop on. Rinse thoroughly with clear water.

Light Soil:	1:40
Medium Soil:	1:20
Heavy Soil:	1:10

CAUTION

KEEP OUT OF REACH OF CHILDREN

Shipping Weight in Pounds:

55 Gallon Drum	502.2 pounds
5 Gallon Tighthead Plastic Pail	45.1 pounds
Case 6 Plastic Gallons	54.8 pounds
Case 12 Plastic Quarts	27.9 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 88
GENERIC NAME: Degreaser

CHEMICAL FAMILY: Liquid Mixture
PROPER SHIPPING NAME: Not regulated

HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH _____ 1
FLAMMABILITY _____ 0
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)
Isopropyl alcohol	67-63-0	400ppm	<10%
Sodium hydroxide	1310-73-2	2mg/m3	<10%
Orange Terpenes	68647-72-3	N/E	<5%

SECTION III - PHYSICAL DATA

PHYSICAL DESCRIPTION: Orange free-flowing liquid, Citrus Scent
BOILING RANGE (°F): 200 ± 5°F
VAPOR PRESSURE: N/E
% VOLATILE: <15%
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY: 1.00 ± .01
EVAPORATION RATE: N/E
pH:

SECTION IV - SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: None
PROTECTIVE GLOVES: Impervious
EYE PROTECTION: Safety glasses recommended
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): Avoid contact with oxidizers and acidic material

HAZARDOUS DECOMPOSITION PRODUCTS: None known

HAZARDOUS POLYMERIZATION:
Will not occur

SECTION VI - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): Non flammable
UPPER EXPLOSIVE LIMIT: N/A **LOWER EXPLOSIVE LIMIT:** N/A
EXTINGUISHING MEDIA: Use the appropriate extinguishing media for the surrounding fire
SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and full protective clothing should be worn when fighting fires involving chemicals.
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION VII - HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE (Primary Route of Entry)
SKIN: Irritant
EYES: Irritant
INHALATION: Irritation to nose, nausea
CARCINOGENS: None suspected
NTP: **OSHA:**
IARC: **ACGIH:**
OTHER:

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: Remove victim to fresh air. If person is having difficulty in breathing, perform artificial respiration and get immediate medical attention.

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.

SECTION X - SPILL OR LEAK PROCEDURES

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

Manufactured By: **WARSAW CHEMICAL CO., INC.**
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