

ITEM: 5H885 - Degreaser 1 Qt

PICK REQ: 1028128865

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A8584

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - A8584

iated Grainger Item: 5H885 - Degreaser 1 Qt

MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700
RUST-OLEUM CORP.
WWW.RUSTOLEUM.COM

SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION

PRODUCT NAME: RUST-OLEUM PURE STRENGTH CLEANER DEGREASER

IDENTIFICATION NUMBER:
F3590100, F3590300, F3590402, F3599100, F3599300, F3599402, F3599507

PRODUCT USE/CLASS: CLEANER/DEGREASER

SUPPLIER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USA

MANUFACTURER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USA

PREPARER: DEPARTMENT, REGULATORY

REVISION DATE: 02/04/2005

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN
D-LIMONENE TECH GRADE	5989-27-5	95.0

CHEMICAL NAME	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
D-LIMONENE TECH GRADE	N.E.	N.E.	N.E.	N.E.

SECTION 3 - HAZARDS IDENTIFICATION

HAZARD AGENCY OVERVIEW:
HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. COMBUSTIBLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION. VAPORS IRRITATING TO EYES AND RESPIRATORY TRACT.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:
MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION. CONTACT CAUSES SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION:
CAUSES NOSE AND THROAT IRRITATION. PROLONGED OR EXCESSIVE INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION. HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. MAY CAUSE HEADACHES AND DIZZINESS. BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS; BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS OF OVEREXPOSURE INCLUDE NOSE, THROAT AND RESPIRATORY TRACT IRRITATION. PRE-EXISTING LUNG DISORDERS, E.G. ASTHMA-LIKE CONDITIONS, MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
CONTAINS D-LIMONENE, WHICH IS AN IARC GROUP 3 AGENT:
"PROBABLY NOT CARCINOGENIC TO HUMANS". D-LIMONENE IS NOT CLASSIFIED AS A CARCINOGEN BY OSHA, NTP NOR ACGIH. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

PRIMARY ROUTE(S) OF ENTRY: SKIN ABSORPTION, INHALATION, EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:
HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT:
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

FIRST AID - INHALATION:
REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET IMMEDIATE MEDICAL ATTENTION.

FIRST AID - INGESTION:
ASPIRATION HAZARD:
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (SETAFLASH): 120 F

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT: 6.10 %

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED.

SPECIAL FIREFIGHTING PROCEDURES:
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR EXPLOSION.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST.

SECTION 7 - HANDLING AND STORAGE

HANDLING:

AVOID CONTACT WITH EYES. AVOID BREATHING VAPOR OR MIST. WASH HANDS BEFORE EATING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. WASH THOROUGHLY AFTER HANDLING.

STORAGE:

KEEP AWAY FROM HEAT, SPARKS, FLAME AND SOURCES OF IGNITION. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION.

RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

SKIN PROTECTION:

USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION.

EYE PROTECTION:

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:

REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:

WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 51 -570 F

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: CITRUS

ODOR THRESHOLD: ND

APPEARANCE: LIQUID

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN H2O: SOLUBLE

FREEZE POINT: ND

SPECIFIC GRAVITY: 0.8570

VAPOR PRESSURE:

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:

INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG

ALKALIES.

HAZARDOUS DECOMPOSITION:
WHEN HEATED TO DECOMPOSITION IT EMITS ACRID SMOKE AND IRRITATING FUMES.
BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND

PRODUCT LC50: ND

CHEMICAL NAME	LD50	LC50
D-LIMONENE TECH GRADE	RAT 5 G/KG	N.E.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS
AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S.

PACKING GROUP: III

DOT TECHNICAL NAME: CONTAINS D-LIMONENE

HAZARD SUBCLASS:

DOT HAZARD CLASS: COMBUSTIBLE

RESP. GUIDE PAGE:

DOT UN/NA NUMBER: NA1993

SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES: FIRE HAZARD

SARA SECTION 313:
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE
SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:
NONE KNOWN

TOXIC SUBSTANCES CONTROL ACT:
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT
ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM
THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE
COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
WATER	7732-18-5
NONIONIC SURFACTANT	127087-87-0

PENNSYLVANIA RIGHT-TO-KNOW:
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT
GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
WATER	7732-18-5
NONIONIC SURFACTANT	127087-87-0

CALIFORNIA PROPOSITION 65:
THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA
TO CAUSE CANCER.

THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA
TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS:
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT
REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: NO INFORMATION AVAILABLE

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:
HEALTH 1*
FLAMMABILITY 2
REACTIVITY 0
PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L:

REASON FOR REVISION:

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE
ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL
FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

ORDER: 1028128865

ITEM: 5H885 - Degreaser 1 Qt

HAZMAT: 5H885

HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK # : 5H885
MSDS # : A8584
FREIGHT CODE : 0204
DOT PROPER SHIP NAME : COMBUSTIBLE LIQUID, (PAINT), NOT REGULATED BY THE
DOT AS A HAZARDOUS MATERIAL PER 49 CFR
173.150 (F) (2)

UPS RESTRICTIONS :

HAZARDOUS CLASS NUMBER :
UN ID # :
PACKING GROUP :
SHIPPING LABEL :

LIMITED QUANTITY : NO
CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON
DOT/UPS EXEMPTION NO. :
COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!! ONLY ARROW UP
LABEL(2S594) REQUIRED.

SHIPPING-PAPERS :

PLACARD OFFERED ? YES () NO () PLEASE MARK ONE
