

MATERIAL SAFETY DATA SHEET

SECTION I

ANATRACE, INC.
434 WEST DUSSEL DRIVE
MAUMEE, OHIO 43537
TELEPHONE (419) 891-3030
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Chemical Emergency (24 hr):
- Within U.S. & Canada (800-424-9300)
- International (703-527-3887)

Effective Date: 04/05/2004 Revised: 07/15/2004

SECTION II IDENTITY/HAZARDS

NAME: n-UNDECYL-N,N-DIMETHYLAMINE-
OXIDE, ANAGRADE⁷

UPPER EXPLOSION LIMIT: Unavailable
LOWER EXPLOSION LIMIT: Unavailable
AUTO IGNITION TEMP: Unavailable

CATALOG # : U360

SYNONYM: UNDECYLDIMETHYLAMINE-N-OXIDE / UDAO

HAZARD RATINGS:

HEALTH:	3	0 - LEAST
FIRE:	0	1 - SLIGHT
REACTIVITY:	0	2 - MODERATE
OTHER:		3 - HIGH
		4 - EXTREME

HAZARD RATING METHOD: HMIS

PRECAUTIONARY STATEMENT: WARNING! Causes severe eye irritation which may result in permanent damage. Avoid contact with eyes, skin and clothing. Wear protective goggles and Neoprene gloves. Wash thoroughly after handling.

SECTION III FIRE AND EXPLOSION DATA

FLASH POINT: >212 F
FLASH METHOD: PMCC

EXTINGUISHING MEDIA: Dry Chemical, Water Fog, Alcohol Foam
SPECIAL PROCEDURES: Use equipment suitable for ordinary combustible material.
EXPLOSION HAZARDS: None known

SECTION IV PHYSICAL PROPERTIES

APPEARANCE:	White solid
ODOR THRESHOLD (ppm):	Unavailable
EVAPORATION RATE:	>1 (Ethyl Ether = 1)
SOLUBILITY IN WATER:	Soluble
BULK DENSITY (approx.):	Not Applicable.

SECTION V HEALTH INFORMATION

EYES: Causes burns

SWALLOWING: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea

TOXICITY DATA: N/A

SECTION VI FIRST AID PROCEDURES

BREATHING: Not applicable.

SKIN Contact: Wash thoroughly with soap and water

EYE CONTACT: Immediately flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Call a physician.

SWALLOWING: Immediately drink two large glasses of water. Call a physician.

SECTION VII REACTIVITY INFORMATION

INCOMPATIBILITIES: Strong oxidizing agents.

DECOMPOSITION: Thermal decomposition products include oxides of carbon and nitrogen compounds.

HAZARDOUS POLYMERIZATION: Cannot Occur

STABILITY: Stable

SECTION VIII UNINTENTIONAL RELEASE INFORMATION

SPILL AND LEAK PROCEDURE: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading. Pump liquid to salvage tank. Remaining liquid may be absorbed on absorbent material and shoveled into containers. Prevent run-off from entering drains, sewers or streams.

WASTE DISPOSAL: Incineration is the recommended disposal method for all chemical wastes, although material may be landfilled in accordance with all applicable regulations. This product, if disposed of, is not considered a hazardous waste under current RCRA regulations.

SECTION IX PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not required under normal conditions of use.
SKIN PROTECTION: Wear protective gloves such as: Neoprene or BUNA-N.
EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised.
OTHER PROTECTION: None required.

SECTION X STORAGE/HANDLING/TRANSPORTATION

STORAGE: Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation. Do not store near heat or open flame.

HANDLING: Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.

TRANSPORTATION INFORMATION: Not regulated under current DOT, IMO or ICAO regulations.

SECTION XI ADDITIONAL INFORMATION

SARA requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372. This information must be included in all MSDS-s that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: NONE

CONTROL MEASURES - Steps to be taken if material is released or spilled:
Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
Sweep up, place in a bag and hold for waste disposal.
Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Waste disposal method: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all Federal, State, and local laws.

SECTION XII COMMENTS

The absence of hazard, toxicity or other information does not imply or guarantee that a product is safe. Handle all chemicals with due and appropriate caution and under competent supervision. Minimize exposure and contact. Use good manufacturing or laboratory practices.

This bulletin is for your guidance and is based upon information and tests believed to be reliable. Anatrace makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The data are offered solely for your consideration, investigation, and verification. These suggestions should not be confused with either state, municipal, or insurance requirements, or with national safety codes and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable Federal State and local regulations.