

G-4200

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ~~AG-4200 REDUCER FOR RANTHANE~~
IDENTIFICATION NUMBER: AG4200----
PRODUCT USE/CLASS :
DATE PRINTED: 05/18/01

SUPPLIER: Randolph Products, 701 12th Street, PO Box 830, Carlstadt, NJ 07072
MANUFACTURER: Randolph Products, 701 12th Street, PO Box 830, Carlstadt, NJ 07072
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PREPARER: JHR, PHONE: 201 438-3700, PREPARE DATE: 11/28/00

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Table with columns: CHEMICAL NAME, CAS NUMBER, WT. PERCENT (IS LESS THAN), TLV-TWA, TLV-STEL, OCCUPATIONAL EXPOSURE LIMITS (PEL-TWA, PEL-CEILING), SKIN. Rows include METHYL ETHYL KETONE, PROPYLENE GLYCOL MONOMETHYL ETHER, ACETATE, and TOLUENE.

(See Section 11 for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE : 172 - 302 F
ODOR : TYPICAL SOLVENT
VAPOR PRESSURE : pH @ 0.0 %
APPEARANCE : THIN CLEAR LIQUID
SOLUBILITY IN H2O : NO
VOLATILE BY WEIGHT: 100.0%
VOCS, lbs/gal : 7.27
VAPOR DENSITY : Is heavier than air
LB/GAL : 7.272
EVAPORATION RATE: Is slower than Ether
VOLATILE BY VOL.: 100.0%
VOCS, grams/ltr : 871

(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 21 F
FLAMMABILITY CLASSIFICATION:
LOWER EXPLOSIVE LIMIT: 1.4 %
OSHA - FLAMMABLE LIQUID - CLASS IB
DOT - FLAMMABLE LIQUID OR SOLID

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA
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(SETAFLASH CLOSED CUP)

UPPER EXPLOSIVE LIMIT: 11.4 %

EXTINGUISHING MEDIA: FOAM DRY CHEMICAL CO2 WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. REMOVE ALL NON-ESSENTIAL PERSONNEL FROM FIRE AREA. VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION AND FLASHBACK.

SPECIAL FIREFIGHTING PROCEDURES: PROVIDE RESPIRATORY PROTECTION AGAINST FUMES GENERATED DURING BURNING. WATER STREAM WILL SPREAD FIRE. DO NOT USE WATER HOSE STREAM. FULL BUNKER GEAR IN FIRE AREA (HELMET WITH FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS)

SECTION V - HEALTH HAZARD DATA
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EFFECTS OF OVEREXPOSURE - EYE CONTACT: PRIMARY IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: CHRONIC HEALTH EFFECTS ARE POSSIBLE FROM LONG TERM EXPOSURE TO THIS MATERIAL, INCLUDING DRYING, CRACKING AND IRRITATION OF THE SKIN. REACTS WITH SKIN PROTEIN AND MOISTURE AND CAN CAUSE RASH, SCALING OR BLISTERING.

EFFECTS OF OVEREXPOSURE - INHALATION: HIGH CONCENTRATIONS MAY CAUSE HEADACHES AND DIZZINESS, ARE ANESTHETIC, AND MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH.

EFFECTS OF OVEREXPOSURE - INGESTION: HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

FIRST AID - EYE CONTACT: CONTACT LENS WEARERS SHOULD CONSULT PROVIDER BEFORE HANDLING - FLUSH WITH COPIOUS AMOUNTS OF WATER - CONSULT PHYSICIAN IMMEDIATELY IF THERE IS EYE CONTACT. FIRST AID MUST BE STARTED IMMEDIATELY, SINCE DELAY CAN RESULT IN SERIOUS INJURY FLUSH WITH COPIOUS AMOUNTS OF WATER. CALL A PHYSICIAN AS SOON AS POSSIBLE NO MATTER HOW SLIGHT THE INJURY APPEARS TO BE.

FIRST AID - SKIN CONTACT: WASH HANDS THOROUGHLY WITH SOAP AND WATER.

FIRST AID - INHALATION: INHALATION: REMOVE TO FRESH AIR, RESTORE BREATHING. CONSULT A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. EYE CONTACT: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER. CONSULT A PHYSICIAN.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

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SECTION - HEALTH HAZARD DATA

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

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION RELEASES CARBON MONOXIDE AND/OR CARBON DIOXIDE.

CONDITIONS TO AVOID: AVOID STRONG OXIDIZERS, ACIDS AND ALKALIES.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: AVOID BREATHING SOLVENT VAPOR. ENSURE ADEQUATE VENTILATION. AVOID SPARKS, FLAMES, AND ANYTHING WHICH COULD CAUSE FIRE. ELIMINATE SOURCE OF SPILL IF YOU CAN DO SO WITHOUT RISK BY CLOSING VALVE, PLUGGING HOLE, ETC.. APPLY ABSORBENT INERT MATERIAL (SAND, DUST, VERMICULITE) TO SPILL. CLEAN SPILL WITH BRISTLE BROOMS, NON-SPARKING TOOLS, CLEAN DRY RAGS. PROTECTIVE CLOTHING SHOULD BE WORN.

WASTE DISPOSAL METHOD: SOAK LIQUIDS WITH SAWDUST OR RAGS AND REMOVE. FLUSH WITH WATER IF POSSIBLE. AVOID SKIN CONTACT. DISPOSAL SHOULD BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT INCINERATE, CUT OR WELD EMPTY CONTAINERS. WHEN DISCARDED THIS MATERIAL IS AN HAZARDOUS WASTE. TRANSFER LIQUID TO CONTAINERS FOR RECOVERY OR DISPOSAL. EPA HAZARDOUS WASTE CODE F003 HAZARDOUS WASTE CHARACTERISTICS. IGNITABILITY.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED RESPIRATOR TYPES SUITABLE FOR MATERIALS IN SECTION II RECOMMENDED. APPROVED CHEMICAL/MECHANICAL FILTERS RECOMMENDED WHEN VENTILATION IS RESTRICTED.

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGHI'S TLV LIMIT. SOLVENT VAPORS SHOULD BE REMOVED FROM LOWER LEVELS OF WORK AREA AND IGNITION SOURCES SHOULD BE ELIMINATED.

SKIN PROTECTION: USE PROTECTIVE CREAMS WHERE SKIN CONTACT IS LIKELY. WEAR PROTECTIVE GLOVES AND GOGGLES.

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## SECTION VIII - SAFE HANDLING AND USE INFORMATION

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: PRECAUTIONS MUST BE TAKEN SO THAT PERSONS DO NOT HAVE CONTACT WITH EYES OR SKIN. PROTECT AGAINST EXPOSURE TO BOTH VAPOR AND SPRAY MIST. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

HYGIENIC PRACTICES: USE NORMAL HYGIENE PRACTICES DURING AND AFTER HANDLING THIS MATERIAL.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PRE-EXISTING SENSITIVITY TO SOLVENTS CAN CAUSE A HEIGHTENED REACTION TO EXPOSURE TO THIS PRODUCT. DRUMS SHOULD BE GROUNDED WHEN BEING EMPTIED. THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH RANDOLPH PRODUCTS CO. OR NOT. CONFIRM IN ADVANCE OF USE THE ACCURACY AND SUITABILITY. DATA ACCUMULATED HEREIN ORIGINATES WITH OUR SUPPLIERS. DUE TO VARIATIONS IN RAW MATERIAL BATCHES THERE MAY BE TRACE ELEMENTS OF SUBSTANCES NOT LISTED WHICH WOULD NOT REQUIRE CHANGES TO THIS SHEET.

OTHER PRECAUTIONS: WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## SECTION X - HMIS RATINGS

HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 3      REACTIVITY: 0

## SECTION XI - OTHER REGULATIONS

## SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
METHYL ETHYL KETONE	78-93-3	45.0 %
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	35.0 %
TOLUENE	108-88-3	30.0 %

TOXIC SUBSTANCES CONTROL ACT:

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## SECTION XI - OTHER REGULATIONS

## TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
No information is available.	

## 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
No non-hazardous materials are among the top five ingredients.	

## PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.	

## CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
TOLUENE	108-88-3
TOLUENE	

PREVIOUS MSDS REVISION DATE: 07/13/99

LEGEND: N.A. - Not Applicable, N.E. - Not Established,  
N.D. - Not Determined

The information contained herein is to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable Federal, State, and Local laws and regulations.

<END OF MSDS>