

ORL-RAT LD50: 1720 MG/KG 3.
 SKN-RBT LD50: 1 ML/KG 3.
 SKN-RBT SDT: 505 MG MODERATE 3.
 SKN-RBT (OPEN): 505 MG MODERATE 3.
 EYE-RBT SDT: 250 UG SEVERE 4.
 IHL-MUS LD50: > 2420 MG/M2/24H 3.
 ORL-RAT LD01: 115 G/KG/90D-1: CHANGES IN LIVER AND BLADDER WEIGHTS 3.
 IHL-RAT FEMALE TCOL: 25 PPM/6H 6-15D AFTER CONCEPTION: UROGENITAL ABNORMALITIES 3.

ETHYLENE GLYCOL MONOBUTYL ETHER

SKN-RBT (OPEN): 500 MG MILD 3.
 EYE-RBT SDT: 100 MG SEVERE 3.

ORL-RAT LD50: 470 MG/KG 3.
 SKN-RBT LD50: 220 MG/KG 3.

IHL-RAT LD50: 450 PPM/24H 3.

IHL-RAT TCOL: 100 PPM/6H (6-18D PREG): TER 3.

ALTHOUGH THE LISTED EFFECTS WERE OBSERVED IN LABORATORY ANIMALS UPON INHALATION OF THIS MATERIAL, STUDIES HAVE ALSO SUGGESTED THAT THERE IS LITTLE POSSIBILITY OF SIGNIFICANT ADVERSE HEALTH EFFECTS IN HUMANS EXPOSED IN THE WORKPLACE TO LEVELS THAT COMPLY WITH THE OSHA PERMISSIBLE EXPOSURE LIMIT OF 25 PPM. AT 100 PPM SOME SUBJECTIVE COMPLAINTS WERE SEEN IN SENSITIVE INDIVIDUALS, AND EVEN AT 200 PPM THE PRIMARY COMPLAINT WAS IRRITATION. THIS APPEARS TO BE ONE OF THE FEW MATERIALS TO WHICH THE HUMAN IS MORE RESISTANT THAN THE USUAL EXPERIMENTAL ANIMALS. 5.
 INHALATION EXPOSURE TO ETHYLENE GLYCOL MONOBUTYL ETHER PRODUCED SOME EVIDENCE OF CANCER IN MICE IN A LONG-TERM BIOASSAY, NO EVIDENCE OF CANCER IN MALE RATS AND EQUIVOCAL EVIDENCE IN FEMALE RATS. 6.

NONYL-PHENOL POLYETHYLENE GLYCOL ETHER

ORL-RAT LD50: 1.3 G/KG 4.

SKN-RBT LD50: 2 ML/KG/24HR OCCULDED 4.

SKN-RBT: NO IRRITATION (UNCOVERED) 4.

EYE-RBT: 0.5 ML @ 5% DILUTION (SEVERE CORNEAL INJURY) 4.
 CONTAINS SURFACTANT WHICH, BASED ON STUDIES WITH RABBITS INVOLVING THE SUSTAINED OCCULDED CONTACT OF THE UNDILUTED SURFACTANT WITH SKIN, INDICATE THAT SUCH CONDITIONS MAY RESULT IN THE DEVELOPMENT OF INFLAMMATORY CHANGES IN THE LUNG. SEVERAL STUDIES HAVE RESULTED IN SLIGHTLY INCREASED KIDNEY WEIGHTS IN MALE RATS CONTINUOUSLY EXPOSED TO NONYL-PHENOL AT DIETARY CONCENTRATIONS OF 200 PPM OR GREATER. TUBULAR DEGENERATION WAS OBSERVED AT 850 AND 2000 PPM. 4.

VOC CONTENT: 20.4% OR 1.7 LB/GAL

SECTION VII - REACTIVITY DATA

Stable-X

Unstable:

Stability: Conditions to Avoid: NONE KNOWN.

Incompatibility (Materials to Avoid):
 STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE, ACIDS, ALKALIES, ALDEHYDES, KETONES, ACRYLATES, ORGANIC ANHYDRIDES AND ORGANIC HALIDES, MATERIALS REACTIVE WITH HYDROXYL COMPOUNDS.

Hazardous Decomposition Products:

OXIDES OF CARBON AND NITROGEN AND OTHER UNIDENTIFIED ORGANIC COMPOUNDS.

Hazardous Polymerization:

May Occur

Will Not Occur-X

Conditions to Avoid: NONE KNOWN.

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

WEAR APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY. DYE AND CONTAIN SPILL. ASSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH WATER.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

Neutralizing Agent:

NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM VAPORS.

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

CHEMICAL GOGGLES SHOULD BE WORN WHEN HANDLING.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING. A SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature:	Indoors-X	Outdoors:	Heated:	Refrigerated:
Minimum Temperature: 35°F				
Maximum Temperature: 120°F				

Precautions to be taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. KEEP FROM FREEZING. IF PRODUCT FREEZES ALLOW IT TO SLOWLY WARM TO ROOM TEMPERATURE AND STIR THOROUGHLY BEFORE USING.

Other Precautions:

TRACES OF FREE ETHYLENE OXIDE MAY BE PRESENT IN THIS PRODUCT AND COULD ACCUMULATE IN THE HEADSPACE OF STORAGE AND TRANSPORT VESSELS. KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit
GLYCOL ETHERS	N/A	20
SAFROL	94-59-7	1

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

PLEASE CALL 1-800-527-9919 FOR ADDITIONAL INFORMATION IF YOU ARE A CALIFORNIA CUSTOMER.

THIS MSDS IS NOT INTENDED FOR USERS IN THE STATE OF CALIFORNIA

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.

2. OSHA PEL.

3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, COMFIDOC, 2001.

4. VENDORS MSDS.

5. DISSOLVING THE MYTHS ABOUT EGBE AND HEALTH, CMA, GLYCOL ETHER PANEL, 1989.

6. CHEMICAL MANUFACTURERS ASSOCIATION, NOVEMBER 9, 1998.

ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

COMB-CONSUMABLE, COR-CORROSIVE CARC-CARCINOGENIC, TOX-TOXIC, N/A-NOT APPLICABLE, NIE-NOT ESTABLISHED, COC-CLEVELAND OPEN CUP, PMCC-PENSKY-MARTIN CLOSED CUP, TOC-TAGLIABUE CLOSED CUP, LEL-LOWER EXPLOSION LIMIT, UEL-UPPER EXPLOSION LIMIT, NFPA-NATIONAL FIRE PROTECTION ASSOCIATION, IARC-INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP-NATIONAL TOXICOLOGY PROGRAM, OSHA-OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH-AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV-THRESHOLD LIMIT VALUE, PEL-PERMISSIBLE EXPOSURE LIMIT, STEL-SHORT-TERM EXPOSURE LIMIT, M-D-MILD, MOD-MODERATE, SEV-SEVERE, MUT-MUTAGENIC, ASPH-ASPHYXANT, PNO-INSOLUBLE (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT-STANDARD DRAIZE TEST, ORL-ORAL, HNM-HUMAN, IHL-INHALATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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