

SARGENT-WELCH  
VWR SCIENTIFIC  
911 COMMERCE COURT - BUFFALO GROVE - ILLINOIS 60089-2375  
1-800-727-4368

24 HOUR EMERGENCY  
ASSISTANCE

CHEMTREC 800-424-9300

HAZARD RATING

IMPORTANT  
MATERIAL DATA SAFETY SHEET  
READ CAREFULLY BEFORE USING CHEMICAL  
OSHA REQUIRES THAT THIS FORM BE KEPT ON FILE.  
PRODUCT NO. C3990E  
PRODUCT NAME ISOPROPYL ALCOHOL

4-EXTREME HEALTH HAZARD 1  
3-SEVERE FLAMMABILITY 4  
2-MODERATE REACTIVITY 2  
1-SLIGHT  
0-MINIMAL

SECTION I  
CHEMICAL NAME  
SYNONYMS  
FORMULA

2-PROPANOL  
CH3CHOHCH3  
67-63-0

C.A.S. NO.  
SECTION II HAZARDOUS INGREDIENTS OF MIXTURES  
PRINCIPAL HAZARDOUS COMPONENT(S) %

ISOPROPYL ALCOHOL\* N/A P.E.L. N/A TLV UNITS N/A

\*CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III.

SECTION III PHYSICAL DATA

MELTING POINT ('F) -89'C SPECIFIC GRAVITY (H2O=1) .79  
BOILING POINT ('F) 82'C PERCENT VOLATILE  
VAPOR PRESSURE (MM HG) 33@ 25'C BY VOLUME (%) 100%  
VAPOR DENSITY (AIR=1) 2.1 EVAPORATION RATE 1.7  
SOLUBILITY IN WATER 100% (BUTYL ACETATE =1)

APPEARANCE & ODOR CLEAR, COLORLESS LIQUID, MILD ODOR.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 12'C CLOSED CUP FLAMMABLE LIMITS IN AIR LOWER UPPER  
(METHOD USED) % BY VOLUME ---- 2.0 12.0

EXTINGUISHER WATER SPRAY, DRY CHEMICAL, ALCOHOL FOAM, OR CARBON DIOXIDE,  
MEDIA WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

SPECIAL FIREFIGHTING PROCEDURES

IN THE EVENT OF A FIRE, WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED  
CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE  
DEMAND OR OTHER POSITIVE PRESSURE MODE. WATER MAY BE USED TO DILUTE SPILLS TO A  
NON-FLAMMABLE MIXTURE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

FLAMMABLE! AUTOIGNITION TEMPERATURE 399'C. ABOVE FLASH POINT, VAPOR AIR  
MIXTURES ARE EXPLOSIVE WITHIN FLAMMABLE LIMITS NOTED ABOVE. VAPORS CAN FLOW  
ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK. CONTACT WITH STRONG  
OXIDIZERS MAY CAUSE FIRE OR EXPLOSION.

D.O.T. ISOPROPANOL, 3, UN1219, PGII

APPROVED BY U.S. DEPARTMENT OF LABOR "ESSENTIALLY SAME" TO FORM OSHA-20

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 400 PPM (TWA)

EFFECTS OF OVEREXPOSURE

ACUTE; IRRITATION TO SKIN, EYES, LUNGS, MUCOUS MEMBRANES, AND GI TRACT. NAUSEA,  
NARCOSIS, DROWSINESS, DIZZINESS. CHRONIC: DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP OR MILD DETERGENT. AND  
WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS. EYES: WASH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFT-  
ING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.  
INHALATION: REMOVE TO FRESH AIR, IF NOT BREATHING, GIVE ARTIFICIAL RESPIRA-  
TION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN: INGESTION:  
IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AFTER GIVING TWO GLASSES OF WATER.  
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN  
IMMEDIATELY.

# SECTION VI REACTIVITY DATA

## STABILITY

STABLE X UNSTABLE

## INCOMPATIBILITY

(MATERIALS TO AVOID)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION

MAY OCCUR WILL NOT OCCUR X

## CONDITIONS TO AVOID

AVOID HEAT AND IGNITION SOURCES.

STRONG OXIDIZER, ALUMINUM, PERCHLORIC

ACID , ETHYLENE OXIDE.

CARBON OXIDES.

CONDITIONS TO AVOID

NONE

## SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. CLEAN UP

PERSONNEL REQUIRE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION FROM VAPORS.

SMALL SPILLS MAY BE ABSORBED ON PAPER TOWELS AND EVAPORATED IN FUME HOOD. ALLOW

ENOUGH TIME FOR FUMES TO CLEAR HOOD, THEN IGNITE PAPER IN A SUITABLE LOCATION

AWAY FROM COMBUSTIBLE MATERIALS. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE.

## WASTE DISPOSAL METHOD

DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO FEDERAL ,STATE OR LOCAL

LAWS. THESE DISPOSAL GUIDELINES ARE INTENDED FOR THE DISPOSAL OF CATALOG-SIZE

QUANTITIES ONLY. CAN BE LIQUID INCINERATED IN RCRA APPROVED COMBUSTION CHAMBER

OR ABSORBED WITH VERMICULITE, DRY SAND, EARTH OR SIMILAR MATERIALS. SCOOP UP

WITH NON-SPARKING TOOLS AND PLACE IN CLOSED CONTAINER, AND DISPOSE IN A RCRA

APPROVED FACILITY. DO NOT FLUSH TO SEWER.

## SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATION ORGANIC CARTRIDGE.

(SPECIFY TYPE)

VENTILATION

LOCAL EXHAUST

X

SPECIAL -----

MECHANICAL (GENERAL)

X

OTHER -----

PROTECTIVE GLOVES

POLY OR RUBBER

EYE PROTECTION GOGGLES

OTHER PROTECTIVE EQUIPMENT LAB COAT

## SECTION IX

### SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

KEEP CONTAINER TIGHTLY

CLOSED WHEN NOT IN USE. STORE IN COOL, WELL VENTILATED PLACE.

OTHER PRECAUTIONS

READ LABEL ON CONTAINER BEFORE USING. DO NOT WEAR CONTACT

LENSES WHEN WORKING WITH CHEMICALS. CONDITIONS AGGRAVATED/TARGET ORGANS:PERSONS

WITH PRE-EXISTING SKIN, EYE, RESPIRATORY DISORDERS MAY BE MORE SUSCEPTIBLE.

APPROVED BY STEVEN C. QUANDT

EFFECTIVE DATE 12/14/94

FOR LABORATORY

USE ONLY. NOT FOR DRUG, FOOD OR HOUSEHOLD USE. KEEP OUT OF REACH OF CHILDREN.

THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND.

EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION

GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATION OF SUITABILITY AND

COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE

MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.



