

DOW
JUN 25 1989

DOW CONFIDENTIAL
REACTIVE CHEMICALS HAZARD DATA
PROPERTIES AND PRECAUTIONS

REFERENCE NUMBER: RCZ-GB 0054
DATE OF ISSUE: AUG 19 89
DATE SAMPLE RECEIVED: JUN 25 89

MATERIAL NAME:
PROPYLENE OXIDE

MOLECULAR FORMULA: C3H6O
PHYSICAL STATE: LIQUID
STRUCTURAL FORMULA/COMPOSITION:
RELATED TO WHAT PROCESS OR PRODUCT:
PROPYLENE OXIDE
SOURCE OF SAMPLE:
TERNEUZEN
STAGE OF DEVELOPMENT: PRODUCTION

PURITY: 100
DR #: 0001582

OWNER OR ORIGINATOR OF REQUEST FOR TESTING:
NAME: A. KAMP
BLDG: PDG
LOCATION: TERNEUZEN

CHARGE #: 624-322
PHONE #:

TESTS REVIEWED BY: JB/TD
CLEARANCE AUTHORIZED BY: JB

WARNING: DATA HEREIN ARE SUBMITTED IN GOOD FAITH, BUT THEY ARE NOT WARRANTED OR GUARANTEED IN ANY RESPECT. BECAUSE THESE DATA ARE BASED UPON LABORATORY TEST CONDITIONS, CAUTION MUST BE EXERCISED BEFORE EXTENDING THESE DATA TO DIFFERENT ENVIRONMENTS. THE DATA REPORTED HEREIN SHOULD BE REVIEWED BY DOW REACTIVE CHEMICALS PERSONNEL BEFORE THEY ARE USED OR RELIED UPON IN ANY APPLICATION.

ATTACHED SECTIONS: DTA: DSC: ARC: X CAL: FP: FL: AT: DE: SS: THR:

THIS RECORD IS IN THE GENERAL DATABASE.

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INFORMATION**

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Date -

Jan. 1, 2009

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JUL 1971

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REACTIVE CHEMICALS HAZARD DATA

REACTIVE CHEMICALS #: RCZ-88-0054

SECTION 3: ACCELERATING RATE CALORIMETRY (ARC)
REPEAT NUMBER 1

PROGRAMMED HEAT STEP (DEG C)				MIN. TEST TEMP. (DEG C)				MAX. TEST TEMP. (DEG C)			
10				40				333			
EXO ONSET				EXO PEAK				HEAT OF REACTION			
TEMP	RATE	PRESS	RATE	TEMP	RATE	PRESS	RATE	(JOULES/G)			
DEG C	DEG C	PSIA	PSIA/MIN	DEG C	DEG C	PSIA	PSIA/MIN				
/MIN				/MIN							
212	0.033	449.4670	<0.0000	-	-	-	-	439			
261	0.112	383.7676	<0.0000	288	0.254	377.9676	0.3191	439			
310	0.071	490.3677	0.8775	-	-	-	-	1197			

TEST RUN BY: T. DORREPAAL
TEST DATE:
TEST REF.: ARC #53
REPORT NUMBER:

SAMPLE CONT.: HC
SAMPLE CONTAINER WT.: 18.62
SAMPLE WT.: 1.14
PHI FACTOR: 4.27

HEAT CAPACITY AT CONSTANT VOLUME: 2.1 JOULES/G C STIRRER (Y OR N):
ADIABATIC TEMPERATURE RISE: DEG C
APPARENT ACTIVATION ENERGY: KJOULES/MOL
HEAT OF REACTION (KJOULES/G): FOR EXO #
ISOTHERMAL AGING TEMPERATURE (C): 40
ISOTHERMAL AGING TIME (MINUTES): 60

ARC TESTS DO NOT NECESSARILY DUPLICATE THE PROCESS OR STORAGE CONDITIONS
THIS MATERIAL MAY BE SUBJECTED TO AND THE MODE OF TESTING CAN INFLUENCE
THE RESULTS OBTAINED. PLEASE REVIEW THESE DATA WITH REACTIVE CHEMICAL
PERSONNEL. DO NOT USE THESE DATA FOR ENGINEERING OR DESIGN PURPOSES
WITHOUT CONSULTING THE ORIGINAL REPORTS AND REACTIVE CHEMICALS
PERSONNEL.

COMMENTS APPEAR AT END OF ARC SECTION

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REACTIVE CHEMICALS HAZARD DATA

REACTIVE CHEMICALS #: RCZ-88-0054

ARC COMMENT SECTION

COMMENTS:

PSEUDO K-FLUT AVAILABLE.

REVISION DATE AUG/19/88

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