

THE S.A. DAY MANUFACTURING CO., INC.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 5200 SURFACTANT

PREPARED BY: PAUL J. CONN ISSUE DATE: 2/3/93 (UPDATED) 2/1/97

SECTION A. MATERIAL IDENTIFICATION. (UPDATED) 2/3/03

MANUFACTURER: S.A. DAY MFG. CO., INC. CHEMTREC:
TELEPHONE: 800-424-9300
OR OUTSIDE USA
1-703-527-3887
(CALL COLLECT)

1489 NIAGARA STREET
BUFFALO, NEW YORK 14213
TELEPHONE: 716-881-3030

SECTION B: INGREDIENTS AND HAZARDS

COMPOSITION/INFORMATION ON INGREDIENTS:

COMPONENT	CAS REG NUMBER	OSHA HAZARD	PERCENTAGE
ETHOXYLATED PROPOXYLATED ALCOHOLS	68603-25-8	Y	>99.5
WATER	7732-18-5	N	<0.5
DIOXANE	123-91-1	Y	<0.001
ETHYLENE OXIDE	75-21-8	Y	<0.001
PROPYLENE OXIDE	75-56-9	Y	<0.001

EXPOSURE LIMIT: PEL (TLU) TWA: 1PPM ACTION LEVEL 0.5 PPM
TRACES OF EO COULD ACCUMULATE IN HEADSPACE
OF STORAGE/TRANSPORT VESSELS.

SUSPECT CARCINOGEN: NO

SECTION C: PHYSICAL DATA.

APPEARANCE: CLEAR TO SLIGHTLY HAZY FREE BOILING POINT: UNK
FLOWING LIQUID FREEZING POINT: UNK
ODOR: SLIGHT ODOR

SPECIFIC GRAVITY: 0.9850 VAPOR PRESSURE: <0.01 MMHG AT 25C (77F)
pH: (OF SOLUTION) 6.00-8.00 VAPOR DENSITY: NA
10% SOLUTION % VOLATILE BY VOLUME: 0.50%
WATER-MAX

EVAPORATION RATE: NA SOLUBILITY IN WATER: SOLUBLE

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SECTION D. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	374 ^o F (OC)	HAZARD CODES	
TEST METHOD:	CLEVELAND OPEN CUP	NFPA	HMIS
		HEALTH:	2 2
LIMITS:	LEL: NA	FLAMMABILITY:	1 1
	UEL: NA	REACTIVITY:	0 0

EXTINGUISHING MEDIA: USE MEDIA PROPER TO PRIMARY CAUSE OF FIRE.
SMALL FIRE - DRY CHEMICAL, CARBON DIOXIDE.
LARGE FIRE - ALCOHOL FOAM, UNIVERSAL FOAM,
WATER SPRAY - NO WATER JET.

SPECIAL FIRE FIGHTING PROCEDURE: FIREFIGHTERS SHOULD WEAR NIOSH/MSHA APPROVED
SELF CONTAINED BREATHING APPARATUS AND FULL
PROTECTIVE CLOTHING.

UNUSUAL FIRE OR EXPLOSION HAZARDS: PRODUCT WILL BURN UNDER FIRE CONDITIONS.

SECTION E. REACTIVITY DATA.

MATERIAL IS STABLE.
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID: HEAT, OPEN FLAME, SPARK

CHEMICAL INCOMPATIBILITIES: STRONG OXIDIZING OR REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: DECOMPOSITION TYPE: THERMAL OXIDES OF
CARBON

SECTION F. HEALTH HAZARD DATA.

MEDICAL CONDITIONS WHICH MAY BE
AGGRAVATED BY CONTACT: DERMATITIS

TARGET ORGANS: SKIN, EYES, MUCOUS MEMBRANES.

PRIMARY ENTRY ROUTES: CONTACT.

ACUTE EFFECTS: INHALATION NOT LIKELY. MISTS MAY CAUSE UPPER
RESPIRATORY TRACT IRRITATION.

CHRONIC EFFECTS: THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENT
DESIGNATED BY IARC, NTP ACGIH OR OSHA AS
PROBABLE OR SUSPECTED HUMAN CARCINOGENS.

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SECTION F: HEALTH HAZARD DATA. (UPDATED) 2/3/03

SIGNS & SYMPTOMS OF EXPOSURE:

EYE CONTACT: WILL CAUSE PAINFUL BURNING OR STINGING OF EYES,
AND INFLAMMATION OF CONJUCTIVA.

SKIN CONTACT: NO EFFECTS OF EXPOSURE EXPECTED DUE TO CONTACT.
MAY POSSIBLY CAUSE IRRITATION OR DERMATITIS IN
SOME INDIVIDUALS UPON PROLONGED CONTACT.

INHALATION: IF MISTED, WILL CAUSE IRRITATION OF MUCOUS
MEMBRANES, NOSE, EYES AND THROAT. COUGHING,
DIFFICULTY IN BREATHING.

INGESTION: LOW ACUTE ORAL TOXICITY. MAY CAUSE NAUSEA,
DIARRHEA, ABDOMINAL CRAMPS.

EMERGENCY & FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES.
GET MEDICAL ATTENTION.

SKIN CONTACT: WASH WITH SOAP AND WATER FOR 5 MINUTES. SEEK
MEDICAL ATTENTION. REMOVE AND CLEAN CONTAMINATED
CLOTHING BEFORE REUSE. INHALATION IS NOT AN
EXPECTED ROUTE OF EXPOSURE. IF RESPIRATORY
IRRITATION OR DISTRESS OCCURS,
REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL
ATTENTION IF RESPIRATORY IRRITATION OR DISTRESS
CONTINUES.

INGESTION: IF CONSCIOUS, GIVE TWO GLASSES OF WATER. NEVER
GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
SEEK MEDICAL ATTENTION.

SECTION G. SPILL, LEAK AND DISPOSAL PROCEDURES.

SPILL/LEAK PROCEDURES: ABSORB WITH AN INERT ABSORBENT. SWEEP UP AND
PLACE IN AN APPROPRIATE CLOSED CONTAINER. CLEAN
UP RESIDUAL MATERIAL BY WASHING AREA WITH WATER.
COLLECT WASHINGS FOR DISPOSAL.

WASTE MANAGEMENT: DISPOSE OF LIQUID WASTE ACCORDING TO FEDERAL,
STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

RCRA NOT REGULATED

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SECTION H. SPECIAL PROTECTION INFORMATION. (UPDATED) 2/3/03

PERSONAL PROTECTIVE EQUIPMENT:

GOGGLES: CHEMICAL GOGGLES

RESPIRATORY PROTECTION: WHEN RESPIRATORS ARE REQUIRED, SELECT NIOSH/MSHA APPROVED EQUIPMENT BASED ON ACTUAL OR POTENTIAL AIRBORNE CONCENTRATIONS AND IN ACCORDANCE WITH THE LATEST OSHA STANDARD (20 CFR 1910.184) AND/OR ANSI Z88.2 RECOMMENDATIONS.

WORK PRACTICE CONTROLS: PERSONNEL HYGIENE IS AN IMPORTANT WORK PRACTICE EXPOSURE CONTROL MEASURE AND THE FOLLOWING GENERAL MEASURES SHOULD BE TAKEN WHEN WORKING WITH OR HANDLING THIS MATERIAL:

- (1) DO NOT STORE, USE, AND/OR CONSUME FOODS, BEVERAGES, TOBACCO PRODUCTS, OR COSMETICS IN AREAS WHERE THIS MATERIAL IS STORED.
- (2) WASH HANDS AND FACE CAREFULLY BEFORE EATING, DRINKING, USING TOBACCO, APPLYING COSMETICS, OR USING THE TOILET.
- (3) WASH EXPOSED SKIN PROMPTLY TO REMOVE ACCIDENTAL SPLASHES OR CONTACT WITH THIS MATERIAL.

SECTION I. SPECIAL PRECAUTIONS.

SPECIAL HANDLING

PRECAUTIONARY MEASURES:

AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.
AVOID BREATHING MIST. USE ADEQUATE VENTILATION FOR MISTING OPERATIONS.

D.O.T. CLASS: CHEMICALS, N.O.I.

SECTION J. TOXICOLOGICAL INFORMATION.

CHRONIC TOXICITY

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES THAT ARE CONSIDERED BY OSHA, NTP, IARC OR ACGIH TO BE "PROBABLE" OR "SUSPECTED" HUMAN CARCINOGENS.

EXPLANATION OF SYMBOLS

NA = NOT APPLICABLE UK = UNKNOWN

THIS MATERIAL SAFETY DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION, AND INVESTIGATION. WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREOF. THE S.A. DAY MFG. CO., INC. MAKE NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.