

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: FORMULA 98
CHEMICAL FAMILY: DETERGENT
PHYSICAL HAZARD: NONE
HEALTH HAZARD: TARGET ORGANS: BLOOD, LIVER, KIDNEYS
HAZARD RATINGS: HEALTH: 2
FLAMMABILITY: 1
REACTIVITY: 0

NUMBER: DMN-292
REVISED: 3/22/01

DAMON INDUSTRIES INC.
BOX 2120, ALLIANCE, OH 44601

24 HOUR EMERGENCY ONLY PHONE: 1-800-535-5053

0 = Insignificant
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

INFORMATION PHONES: 1-800-362-9850
OR 330-821-5310
FAX: 330-821-5563

D.O.T. HAZARD CLASS: NOT CONSIDERED HAZARDOUS UNDER CFR 49

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT	TWA	STEL	CEILING
2-PROPANOL	67-63-0	2 - 10%	400 ppm	500 PPM	-
2-BUTOXYETHANOL	111-76-2	2 - 10%	25 ppm	-	-
2,2,2-NITRILOTRISETHANOL	102-71-6	2 - 10%	5 mg/M3	-	-

THE BALANCE OF INGREDIENTS ARE NOT CONSIDERED HAZARDOUS UNDER CFR 29 1910.1200.

NONE OF THE INGREDIENTS ARE LISTED AS CARCINOGENS BY N.T.P., I.A.R.C. OR OSHA.

SECTION 3 - PHYSICAL DATA

BOILING POINT: 200° F.
SPECIFIC GRAVITY: 1.0
VAPOR PRESSURE: NOT AVAILABLE
PERCENT VOLATILES: 85%
VAPOR DENSITY: NOT AVAILABLE
EVAPORATION RATE: 1 (WATER=1)
SOLUBILITY IN WATER: COMPLETE
pH: 9.5 ± 1.0
APPEARANCE AND ODOR: YELLOW LIQUID - ORANGE ODOR.

EFFECTS OF OVEREXPOSURE:

EYES: CAUSES IRRITATION, REDNESS, TEARING, BLURRED VISION, POSSIBLE EYE DAMAGE.
SKIN: PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.
SWALLOWING: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.
BREATHING: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, NAUSEA.

FIRST AID PROCEDURES:

EYE CONTACT: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET MEDICAL ATTENTION.
SKIN CONTACT: WASH WITH SOAP AND WATER. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.
INGESTION: GIVE TWO GLASSES OF WATER TO DRINK. INDUCE VOMITING IMMEDIATELY BY STICKING FINGER DOWN THROAT OR BY GIVING AN EMETIC SUCH AS IPECAC. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. TREAT FOR SHOCK BY KEEPING WARM AND QUIET. GET MEDICAL ATTENTION IMMEDIATELY.
INHALATION: IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 110° F FOR VAPORS IN CLOSED SPACE.
PRODUCT WILL NOT BURN.
LOWER EXPLOSIVE LIMIT: NOT APPLICABLE
UPPER EXPLOSIVE LIMIT: NOT APPLICABLE
EXTINGUISHING MEDIA: WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: CARBON MONOXIDE, VARIOUS HYDROCARBONS.

SECTION 7 - SPECIAL PRECAUTIONS SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND MAY BE HAZARDOUS. OBSERVE ALL PRECAUTIONS GIVEN IN THIS DATA SHEET.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: WIPE OR MOP UP. RETURN TO CONTAINERS.

WASTE DISPOSAL METHOD: WASH TO SEWER WITH LARGE AMOUNT OF WATER. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 8 - PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: NONE UNDER EXPECTED USE CONDITIONS. IF USED IN AN ENCLOSED AREA, RESPIRATOR MAY BE ADVISABLE.
VENTILATION: GOOD ROOM VENTILATION BY OPEN DOORS AND POSSIBLY OPEN WINDOWS.
PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: NEOPRENE.
EYE PROTECTION: IF EYE CONTACT WITH CONCENTRATE IS POSSIBLE, THE WEARING OF SAFETY GLASSES WITH SIDE SHIELDS, ESPECIALLY FOR CONTACT LENS WEARERS, IS ADVISED.
OTHER PROTECTIVE EQUIPMENT: VINYL OR RUBBER APRON.

SECTION 6 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV): NONE KNOWN

PRIMARY ROUTES OF ENTRY:

THROUGH SKIN INHALATION INGESTION

OTHER REGULATORY INFORMATION

THE COMPONENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.
Replaces sheet dated 2/25/98.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF CFR 372:

CHEMICAL NAME	CAS#	% BY WEIGHT	LBS/GAL (If sold by gallons)
2-BUTOXYETHANOL	111-76-2	8	0.66

THIS INFORMATION MUST BE INCLUDED IN ALL MSDSS THAT ARE COPIED AND DISTRIBUTED FOR THIS PRODUCT.