

HAAKE BUCHLER INSTRUMENTS, INC.
 244 SADDLE RIVER RD.
 SADDLE BROOK, NJ 07662
 201 843-2320 TELEX: 219730

MATERIAL SAFETY DATA SHEET

DS#: 0001039

1. I.D. OF PRODUCT

PRODUCT NAME : ACRYLAMIDE-BIS PREMIX 3%C

SYNONYM :

CHEMICAL NAME : ACRYLAMIDE MONOMER CONTAINING 3% W/W
 N,N1-METHYLENEBISACRYLAMIDE

FORMULA : C3H5NO (ACRYLAMIDE)
 CAS # : 79-06-1

2. HAZARDOUS MIXTURES

NATURE OF HAZARD	%
SEE BELOW	97 %
	3 %

ACRYLAMIDE
 N,N1-METHYLENEBISACRYLAMIDE

3. PHYSICAL DATA

BOILING PT. (DEG.C) :	N/A	SPECIFIC GRAVITY (H2O=1):	CA. 1.1
VAPOR PRESSURE (MMHG):	1.6 MM	% VOLATILE BY VOLUME :	NEGLIGIBLE
AT 84.5 C		EVAPORATION RATE (=1):	N/A
VAPOR DENSITY (AIR=1):	2.45		
SOLUBILITY IN WATER :	VERY SOLUBLE		
APPEARANCE & ODOR :	WHITE CRYSTALLINE SOLID, ODDORLESS		

N/A = NOT AVAILABLE OR NOT APPLICABLE; N/D = NOT DETERMINED.

4. FIRE/EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): N/A; FLAMMABLE LIMITS:____; UEL; LEL:____
 EXTINGUISHING MEDIUM: WATER SPRAY, CARBON DIOXIDE, HALONE OR DRY CHEMICAL.
 SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS
 UNUSUAL FIRE/EXPLOSION HAZARDS: DUST MAY BE EXPLOSIVE IF MIXED WITH AIR
 IN CRITICAL PROPORTIONS AND IN THE PRESENCE OF A SOURCE OF IGNITION.

5. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 0.3 MG/M3 (SKIN). | EFFECTS OF OVEREXPOSURE:
 SKIN OR SWALLOWED. DANGER OF CUMULATIVE EFFECTS! IRRITATING TO SKIN/EYES
 AND RESPIRATORY SYSTEM. LD50 ORALLY IN RATS: 294MG/KG. ACRYLAMIDE IS A
 NEUROTOXIN. NEUROTOXICITY CAN RESULT AFTER A SINGLE INGESTION BUT IS MORE
 LIKELY TO OCCUR AFTER INGESTION OF SMALL AMTS OVER A PERIOD OF SVERAL DAYS/
 WEEKS. ACRYLAMIDE IS READILY ABSORBED THROUGH UNBROKEN SKIN. EARLY SYMPTOMS
 OF POISONING ARE PEELING/REDNESS OF SKIN ON AREAS OF EXPOSURE, SWEATING OF
 HANDS AND FEET, NUMBNESS, TINGLING AND WEAKNESS IN EXTREMITIES.
 EMERGENCY FIRST AID PROCEDURES: AVOID BREATHING DUST. AVOID CONTACT WITH
 SKIN/EYES. IN CASE OF SKIN CONTACT, REMOVE CONTAMINATED CLOTHING. CLEANSE
 SKIN THOROUGHLY WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION. IN CASE OF
 CONTACT WITH EYES, RINSE IMMEDIATELY W/PLENTY WATER & SEEK MEDICAL ADVICE.
 IF SWALLOWED, GET IMMEDIATE MEDICAL HELP.

6. REACTIVITY DATA

STABILITY : UNSTABLE: STABLE: X
 INCOMPATABILITY: OXIDIZING & REDUCING AGENTS, ACIDS, BASES & VINYL POLYMERI-
 ZATION INITIATORS (E.G.PEROXIDES). ALSO COPPER, ALUMINUM, BRASS & BRONZE.
 IRON OR RUST MAY TRIGGER RAPID EXOTHERMIC POLYMERIZATION OF ACRYLAMIDE
 SOLUTION.
 HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION OR COMBUSTION MAY
 PRODUCE OXIDES OF NITROGEN, CARBON MONOXIDE AND AMMONIA.
 HAZARDOUS POLYMERIZATION : MAY OCCUR

DOC 1039

CONDITIONS TO AVOID: SOLUTIONS MUST BE STABILIZED.

7. SPILL/LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED/SPILLED: WEAR AN APPROVED RESPIRATOR, GLOVES & RAIN-SUIT. SPILLS OF ACRYLAMIDE MUST BE PROMPTLY REMOVED. USE VACUUM CLEANER EQUIPPED WITH CHARCOAL EXHAUST SCRUBBER OR HOSE FROM MECHANICAL EXHAUST VENTILATION SYSTEMS TO VACUUM SPILLS. IF THESE METHODS ARE NOT WORKABLE, SWEEP UP SPILLS AND PLACE IN A COVERED WASTE DISPOSAL CONTAINER. FLUSH AREA WITH WATER TO CHEMICAL SEWER. DISPOSE OF IN AN APPROVED INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL LAWS CONCERNING HEALTH AND ENVIRONMENT.

8. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: UTILIZE A CLOSED SYSTEM PROCESS WHERE FEASIBLE. WHERE A CLOSED SYSTEM IS NOT USED, GOOD ENCLOSURE AND LOCAL EXHAUST VENTILATION SHOULD BE PROVIDED. ORGANIC VAPOR CARTRIDGES PROVIDE PROTECTION UP TO 10X THE TLV. CARTRIDGES MUST BE CHANGED AT THE BEGINNING OF EACH SHIFT.

PROTECTIVE GLOVES: IMPERVIOUS RUBBER OR PLASTIC.

EYEPROTECTION : CHEMICAL SPLASH PROOF OR GOGGLES, A FACESHIELD AND HEAD COVERING.

OTHER PROTECTIVE EQUIPMENT: RUBBER SHOES AND LONG SLEEVED COVERALLS, WHICH ARE TO BE PROVIDED CLEAN DAILY. SAFETY SHOWER AND EYEWASH FOUNTAIN WHEN SOLUTIONS ARE USED.

9. SPECIAL PRECAUTIONS

FOR HANDLING AND STORING: STORE AT -20 DEG.C AND UNDER NITROGEN TO SAVE HIGH ANALYTICAL GRADE. KEEP CONTAINER TIGHTLY CLOSED TO PREVENT ACRYLAMIDE FROM SUBLIMING AND ENTERING THE ATMOSPHERE. ACRYLAMIDE IN CONTACT WITH MOISTURE WILL CAKE AND MAY ALSO SLOWLY POLYMERIZE TO FORM GELS.

DATE: 10/31/85

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

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