**N,N'-METHYLENEBISACRYLAMIDE**

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**MATERIAL SAFETY DATA SHEET**

FISHER SCIENTIFIC

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CHEMICAL DIVISION

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SUBSTANCE IDENTIFICATION

CAS NUMBER: 110-28-9

SUBSTANCE: **N,N'-METHYLENEBISACRYLAMIDE**

TRADE NAMES/SYNONYMS:

N,N'-METHYLENEBIS-2-PROPENAMIDE; N,N'-METHYLENEBIS-ACRYLAMIDE;

BISACRYLAMIDE; N,N'-DIACRYLOXYMETHYLENEDIAMINE; METHYLMETHACRYLAMIDE;

METHYLMETHYLAACRYLAMIDE; M,N'-METHYLENEDIACRYLAMIDE; O-3586; O-3587; BP-171; BP-2008; BP-2018;

BP-1404; ACC16777

CHEMICAL FAMILY:

AMIDE, ALIPHATIC

MOLECULAR FORMULA: C7H10O-N2-O2

MOLECULAR WEIGHT: 154.19

CERCLA RATINGS (SCALE 0-3): HEALTH-3; FIRE-U; REACTIVITY-0; PERSISTENCE-1

NFPA RATINGS (SCALE 0-4): HEALTH-2; FIRE-U; REACTIVITY-0

COMPONENTS AND CONTAMINANTS

COMPONENT: N,N'-METHYLENEBISACRYLAMIDE

PERCENT: 2.0-100

COMPONENT: WATER

PERCENT: 98.0

OTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:

NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH, OR NIOSH.

PHYSICAL DATA

DESCRIPTION: COLORLESS, CRYSTALLINE POWDER

MELTING POINT: 365 F (185 C) DECOMPOSES SPECIFIC GRAVITY: 1.2

SOLUBILITY IN WATER: SOLUBLE VAPOR DENSITY: 5.3

FIREFIGHTING DATA

FIRE AND EXPLOSION HAZARD:

NEGLECTIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FIREFIGHTING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR FOAM

FOR LARGER FIRES, USE WATER SPRAY, FOAM OR ALCOHOL FOAM

FIREFIGHTING:

MOVE CONTAINER FROM FIRE AREA IF POSSIBLE. DO NOT SCATTER SPILLED MATERIAL

WITH MORE WATER THAN NEEDED FOR FIRE CONTROL. DIKE FIRE CONTROL WATER FOR

LATER DISPOSAL

USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS

VAPORS, KEEP UPWIND

REACTIVITY

STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES:

N,N'-METHYLENEBISACRYLAMIDE;

OXIDIZERS (STRONG); FIRE AND EXPLOSION HAZARD

DECOMPOSITION:

THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF NITROGEN.

POLYMORPHISMS:

Hazardous polymerizations have not been reported to occur under normal

temperatures and pressures

STORAGE AND DISPOSAL

OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING OR DISPOSING

OF THIS SUBSTANCE.

**STORAGE**

STORE IN SEALED CONTAINERS IN EXPLOSION PROOF REFRIGERATOR.

STORE AWAY FROM INCOMPATIBLE SUBSTANCES.
CONDITIONS TO AVOID

NONE REPORTED.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL
NO SPECIAL PRECAUTIONS INDICATED.

PROTECTIVE EQUIPMENT

VENTILATION:
PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION. VENTILATION EQUIPMENT MUST BE EXPLOSION-PROOF.

RESPIRATOR:
The following respirators are recommended based on information found in the physical data, toxicity and health effects sections. They are ranked in order from minimum to maximum respiratory protection. The specific respirator selected must be based on contamination levels found in the work place, must be based on the specific operation, must not exceed the working limits of the respirator and must be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

ANY DUST AND MIST RESPIRATOR.
ANY AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY POWERED AIR-PURIFYING RESPIRATOR WITH A DUST AND MIST FILTER.
ANY POWERED AIR-PURIFYING RESPIRATOR WITH A HIGH-EFFICIENCY PARTICULATE FILTER.
ANY TYPE "C" SUPPLIED-AIR RESPIRATOR OPERATED IN THE PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE OR CONTINUOUS-FLOW MODE.
ANY SELF-CONTAINED BREATHING APPARATUS.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

ANY SELF-CONTAINED BREATHING APPARATUS THAT HAS A FULL FACEPiece AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.
ANY SUPPLIED-AIR RESPIRATOR THAT HAS A FULL FACEPiece AND IS OPERATED IN A PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE. IN COMBINATION WITH AN AUXILIARY SELF-CONTAINED BREATHING APPARATUS OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE-PRESSURE MODE.

CLOTHING:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT WITH THIS SUBSTANCE.

GLOVES:
EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE GLOVES TO PREVENT CONTACT WITH THIS SUBSTANCE.

EYE PROTECTION:
EMPLOYEE MUST WEAR SPLASH-PROOF OR DUST-RESISTANT SAFETY GOGGLES AND A FACE SHIELD TO PREVENT CONTACT WITH THIS SUBSTANCE.

EMERGENCY WASH FACILITIES:
WHERE THERE IS ANY POSSIBILITY THAT AN EMPLOYEE'S EYES AND/OR SKIN MAY BE EXPOSED TO THIS SUBSTANCE, THE EMPLOYER SHOULD PROVIDE AN EYE WASH FOUNTAIN AND QUICK DRENCH SHOWER WITHIN THE IMMEDIATE WORK AREA FOR EMERGENCY USE.

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