

## Melatonin Safety Data Sheet

Source of SDS: DESIGNED NUTRITIONAL PRODUCTS

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DESIGNED NUTRITIONAL PRODUCTS, INC.  
1199 SOUTH 1480 WEST  
OREM, UTAH 84058  
USA

EMERGENCY NUMBER USA: (801) 224-4518  
AFTER HOURS ASSISTANCE: (801) 226-7901 or (801) 368-0889  
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### SUBSTANCE IDENTIFICATION

SUBSTANCE: N-[2-(5-methoxy-1H-indol-3-yl)ethyl]acetamide  
TRADE NAMES/SYNONYMS: MELATONIN, N-acetyl-5-methoxytryptamine  
PRODUCT NUMBER: 8019  
CAS NUMBER: 73-31-4  
MOLECULAR FORMULA: C13-H16-N2-O2  
MOLECULAR WEIGHT: 232.28  
NFPA RATINGS (SCALE 0-4): HEALTH=2 FIRE=1 REACTIVITY=0  
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### COMPONENTS AND CONTAMINANTS

COMPONENT: MELATONIN (100%)  
OTHER CONTAMINANTS: NONE  
EXPOSURE LIMITS: No occupational exposure limits established by OSHA, ACGIH,  
or NIOSH.  
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### PHYSICAL DATA

MELTING POINT: 116.5-118°C  
DESCRIPTION: MESH SIZE: 100% through 60 mesh.  
MICROBIOLOGICAL:  
SALMONELLA: NEGATIVE  
E.COLI: NEGATIVE  
TOTAL COLIFORMS: NEGATIVE  
STANDARD PLATE COUNT: <10,000 CFU/gm  
YEAST & MOLD: <1000 CFU/mg  
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### TOXICITY

TOXICITY DATA (MELATONIN): RTECS# AC5955000  
ORAL; RAT; LD50:>3200mg/kg;  
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### HEALTH EFFECTS AND FIRST AID

ACUTE EFFECTS OF EXPOSURE: MAY BE HARMFUL BY INHALATION, INGESTION, OR  
SKIN ABSORPTION. MAY CAUSE EYE AND SKIN  
IRRITATION.

FIRST AID: IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR FIFTEEN MINUTES.

IN CASE OF CONTACT WITH SKIN, IMMEDIATELY WASH WITH SOAP AND COPIOUS AMOUNTS OF WATER.

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN

CALL A PHYSICIAN.

REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

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### **FIRE AND EXPLOSION DATA**

EXTINGUISHING MEDIA: WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER,  
ALCOHOL OR POLYMER FOAM.

FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS  
AND PROTECTIVE CLOTHING TO PREVENT  
CONTACT WITH VAPORIZED MATERIAL AND/OR  
TOXIC FUMES.

FIRE AND EXPLOSION HAZARDS: DUST AND AIR MIXTURE MAY IGNITE AND  
EXPLODE.

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### **REACTIVITY**

STABILITY: STABLE

INCOMPATIBILITIES: STRONG OXIDIZING AGENTS  
STRONG REDUCING AGENTS  
STRONG BASES

HAZARDOUS COMBUSTION  
OR DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, AND  
NITROGEN OXIDES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

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### **SPILL AND LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL  
IS RELEASED OR SPILLED: WEAR APPROVED RESPIRATOR,  
CHEMICAL SAFETY GOGGLES, RUBBER  
BOOTS, AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN CLOSED CONTAINER  
AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST.

VENTILATE AREA AND WASH SPILL SITE  
AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD:

DISSOLVE OR MIX THE MATERIAL WITH A  
COMBUSTIBLE SOLVENT AND BURN IN A  
CHEMICAL INCINERATOR EQUIPPED WITH  
AN AFTERBURNER AND SCRUBBER.

OBSERVE ALL FEDERAL, STATE, AND

LOCAL DISPOSAL REGULATIONS.

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

CHEMICAL SAFETY GOGGLES  
IMPERVIOUS RUBBER GLOVES  
OSHA/MSHA-APPROVED RESPIRATOR  
SAFETY SHOWER AND EYE BATH  
MECHANICAL EXHAUST REQUIRED  
AVOID CONTACT AND INHALATION  
DO NOT INHALE DUST  
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING  
AVOID PROLONGED OR REPEATED EXPOSURE  
WASH THOROUGHLY AFTER HANDLING  
KEEP TIGHTLY CLOSED  
STORE IN COOL, DRY PLACE

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**ADDITIONAL INFORMATION**

ALWAYS USE PERSONAL PROTECTIVE EQUIPMENT AND FOLLOW SAFE LABORATORY  
PRACTICES DURING THE HANDLING OR DISPOSAL OF THIS CHEMICAL.

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST  
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