

SIGMA CHEMICAL -- NINHYDRIN SIGMA GRADE CRYSTALLINE
MATERIAL SAFETY DATA SHEET
NSN: 655000D002975
Manufacturer's CAGE: 21076
Part No. Indicator: A
Part Number/Trade Name: NINHYDRIN SIGMA GRADE CRYSTALLINE

=====
General Information
=====

Company's Name: SIGMA CHEMICAL CO
Company's Street: 3050 SPRUCE ST.
Company's P. O. Box: 14508
Company's City: ST. LOUIS
Company's State: MO
Company's Country: US
Company's Zip Code: 63178
Company's Emerg Ph #: 314-771-5765
Company's Info Ph #: 800-325-3010
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 26JAN93
Safety Data Review Date: 11MAR93
Supply Item Manager: CX
MSDS Serial Number: BPZPV
Hazard Characteristic Code: J7
Unit Of Issue: NK

=====
Ingredients/Identity Information
=====

Proprietary: NO
Ingredient: NINHYDRIN, CRYSTALLINE
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: NK5425000
CAS Number: 485-47-2
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

=====
Physical/Chemical Characteristics
=====

Appearance And Odor: WHITE TO YELLOW POWDER.

Melting Point: 482F,250C
Decomposition Temperature: UNKNOWN
Solubility In Water: COMPLETE
Corrosion Rate (IPY): UNKNOWN

=====
Fire and Explosion Hazard Data
=====

Extinguishing Media: USE WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.
Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS TO PREVENT CONTACT WITH SKIN AND EYES.
Unusual Fire And Expl Hazrds: EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

=====
Reactivity Data
=====

Stability: NO
Cond To Avoid (Stability): LIGHT-SENSITIVE. MAY DISCOLOR ON EXPOSURE TO LIGHT
Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Decomp Products: CARBON MONOXIDE AND CARBON DIOXIDE
Conditions To Avoid (Poly): NONE SPECIFIED BY MANUFACTURER.

=====
Health Hazard Data
=====

LD50-LC50 Mixture: IPR-MUS LD50: 78 MG/KG
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: YES
Health Haz Acute And Chronic: ACUTE EFFECTS: MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. CAUSES EYE AND SKIN IRRITATION. MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES REDDENING OF THE SKIN.
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: MANUFACTURER STATES TO BEST OF THEIR KNOWLEDGE THIS PRODUCT HAS NOT BEEN THOROUGHLY INVESTIGATED.
Signs/Symptoms Of Overexp: THIS MATERIAL IS A RUBEFACIENT. SKIN CONTACT WILL RESULT IN A REDDING OF THE SITE WITH POSSIBLE INFLAMMATION.
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
Emergency/First Aid Proc: EYES: FLUSH WITH RUNNING WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: FLUSH SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED

CLOTHING. GET MEDICAL ADVICE. INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION: RINSE MOUTH & DRINK LARGE AMOUNTS OF WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.

=====
Precautions for Safe Handling and Use
=====

Steps If Matl Released/Spill: WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG 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 ENVIRONMENTAL REGULATIONS.

Precautions-Handling/Storing: USE ONLY IN A CHEMICAL FUME HOOD. AVOID INHALATION. AVOID ALL CONTACT. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY CLOSED.

Other Precautions: STORE IN A COOL DRY PLACE. THIS PRODUCT IS LIGHT-SENSITIVE. THIS MATERIAL IS A RUBEFACIENT AND IRRITANT.

=====
Control Measures
=====

Respiratory Protection: WEAR APPROPRIATE NIOSH/MSHA APPROVED RESPIRATOR.

Ventilation: USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves: CHEMICAL-RESISTANT

Eye Protection: SAFETY GOGGLES

Other Protective Equipment: WEAR INDUSTRIAL WORK CLOTHING. USE RUBBER APRON OR BOOTS IF NEEDED. HAVE EMERGENCY EYE WASH AND SAFETY SHOWER AVAILABLE.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Suppl. Safety & Health Data: THE MANUFACTURER STATE "TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED" FOR THIS PRODUCT.

=====
Transportation Data
=====

Trans Data Review Date: 93070

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI PSN Code: ZZZ

AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

N.O.S. Shipping Name: NINHYDRIN, CRYSTALLINE

=====
Disposal Data
=====

=====
Label Data
=====

Label Required: YES

Technical Review Date: 11MAR93

Label Status: F

Common Name: NINHYDRIN SIGMA GRADE CRYSTALLINE

Signal Word: WARNING!

Acute Health Hazard-Moderate: X

Contact Hazard-Moderate: X

Fire Hazard-None: X

Reactivity Hazard-None: X

Special Hazard Precautions: ACUTE EFFECTS: MAY BE HARMFUL BY INHALATION,
INGESTION, OR SKIN ABSORPTION. CAUSES EYE AND SKIN IRRITATION. MATERIAL IS
IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. CAUSES
REDDENING OF THE SKIN. USE ONLY IN A CHEMICAL FUME HOOD. AVOID INHALATION.
AVOID ALL CONTACT. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY
CLOSED.

Protect Eye: Y

Protect Skin: Y

Protect Respiratory: Y

Label Name: SIGMA CHEMICAL CO

Label Street: 3050 SPRUCE ST.

Label P.O. Box: 14508

Label City: ST. LOUIS

Label State: MO

Label Zip Code: 63178

Label Country: US

Label Emergency Number: 314-771-5765