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M A T E R I A L S A F E T Y D A T A S H E E T

SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

NAME: N-ACETYL-L-CYSTEINE; ACETYLCYSTEINE

SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 616-91-1
MOLECULAR FORMULA: C₅H₉NO₃S
MOLECULAR WEIGHT: 163.20
Nitrogen: 8.58%
EC NO.: 210-498-3

SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

NON-HAZARDOUS
LABEL PRECAUTIONARY STATEMENTS
IRRITANT
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN
AVOID CONTACT AND INHALATION

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER
IF INHALED, REMOVE TO FRESH AIR.
IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IN CASE OF CONTACT WITH EYES, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER
IN CASE OF CONTACT WITH SKIN, IMMEDIATELY WASH SKIN WITH SOAP AND PLENTY OF WATER.

SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

EXTINGUISHING MEDIA
WATER SPRAY
CARBON DIOXIDE, DRY CHEMICAL POWDER.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING EQUIPMENT AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS

SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -

IN CASE OF RELEASE OR SPILLED
WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES IF POSSIBLE.
SWEEP UP IN A PLASTIC BRUSH AND PICK
PLACE IN A PLASTIC BAG AND HOLD FOR WASTE DISPOSAL
AVOID RAISING DUST
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE

SECTION 7. - - - - - HANDLING AND STORAGE - - - - -

- KEEP TIGHTLY CLOSED
- STORE IN A DRY PLACE
- ROOM TEMPERATURE
- AVOID KEEP TOGETHER OTHER STRONG OXIDIZING AGENTS

SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -

- DO NOT BREATHE DUST AND SWALLOWED
- AVOID CONTACT WITH EYES, SKIN
- WASH THOROUGHLY AFTER HANDLING
- MECHANICAL EXHAUST REQUIRED
- AVOID PROLONGED OR REPEATED EXPOSURE
- DUSTPROOF RESPIRATOR
- COMPATIBLE CHEMICAL-RESISTANT GLOVES
- CHEMICAL SAFETY GOGGLES
- SAFETY SHOWER AND EYE BATH

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

- APPEARANCE
 - WHITE CRYSTALS OR POWDER
- ODOUR
 - STRONGLY ACID TASTE.
- SOLUBILITY
 - WATER SOLUBILITY: 170g/L AT 20°C
 - MELTING POINT: 104-110°C
 - pH: 2.0 TO 2.8

SECTION 10. - - - - - -STABILITY AND REACTIVITY - - - - -

- STABILITY
 - STABLE.
- IMCOMPATIBILITIES
 - PROTECT FROM MOISTURE.
 - STRONG OXIDIZING AGENTS
 - AVOID CONTACT WITH METALS.
 - AVOID CONTACT WITH HEAVY METAL SALTS.
- HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
 - CARBON MONOXIDE,
 - CARBON DIOXIDE,
 - NITROGEN OXIDES
- HAZARDOUS POLYMERIZATION
 - WILL NOT OCCUR.

SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

- ACUTE EFFECTS
 - MAY CAUSES SKIN IRRITATION.
 - MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN
 - MAY CAUSES EYE IRRITATION.
 - MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
 - MAY BE HARMFUL IF INHALED.
 - MAY BE HARMFUL IF SWALLOWED.
 - TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

TOXICITY DATA

ORL-RAT LD50:5050 mg/kg	TXAPA9 18, 185, 1971
INV-RAT LD50:1140 mg/kg	EJRDD2 61 (SUPPL)
ORL-MUS LD50:4400 mg/kg	EPXXDW #0192191
IPR-MUS LD50:400 mg/kg	NTIS** AD691-490
IVN-MUS LD50:3800 mg/kg	JMCMAR 10, 1172, 1967

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF
THIS MATERIAL.

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.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -
NON-HAZARDOUS FOR AIR, SEA AND ROAD TRANSPORT

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -
IRRITANT

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.

WEAR SUITABLE PROTECTIVE CLOTHING.

SECTION 16. - - - - - OTHER INFORMATION - - - - -
THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO
BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. WUHAN UNIVERSITY HOYO
CO, . LTD. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING
OR FROM CONTACT WITH THE ABOVE PRODUCT.

- - - - - END - - - - -