

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### COMPANY INFORMATION

NINGBO YONGSHUN FINE CHEMICAL CO., LTD  
ADD:NO.879 NANPU ROAD,XIEPUTOWN,ZHENHAI DISTRICT,  
NINGBO CITY, ZHEJIANG,315204,CHINA

### EMERGENCY CONTACT:

TEL: +86-574-86501227

**PRODUCT NAME:** N-PROPYL ACETATE

### TRADE NAMES/SYNONYMS:

MTG MSDS 232; PROPYL ACETATE; PROPYL ESTER,N-PROPYL ESTER, 1-PROPYL ACETATE

**CHEMICAL FAMILY:** ESTERS, CARBOXYLIC, ALIPHATIC

**UN PROPER SHIPPING NAME:**N-PROPYL ACETATE

**PRODUCT USE:** SOLVENT

## 2. HAZARD IDENTIFICATION

**HEALTH:** EYE CORROSION/IRRITATION: CATEGORY 2

TARGET ORGAN TOXICITY-SINGLE EXPOSURE:CATEGORY 3

**ENVIRONMENTAL:** NONE KNOWN

**PHYSICAL:** FLAMMABLE LIQUID:CATEGORY 2

**LABEL/SYMBOLS:**



**SIGNAL WORDS:** DANGER

### HAZARD STATEMENTS

H225 HIGHLY FLAMMABLE LIQUID AND VAPOUR.

H319 CAUSES SERIOUS EYE IRRITATION.

H336 MAY CAUSE DROWSINESS OR DIZZINESS.

### PRECAUTIONARY STATEMENTS PREVENTION

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. -NO SMOKING.

P233 KEEP CONTAINER TIGHTLY CLOSED.

P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.

P241 USE EXPLOSION-PROOF ELECTRIC/VENTILATION/LIGHTING/EQUIPMENT.

P242 USE ONLY NON-SPARKING TOOLS.

P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.

P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOUS/SPRAY.

P264 WASH SKIN THOROUGHLY AFTER HANDLING.

P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P273 AVOID RELEASE TO THE ENVIRONMENT.

P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE  
PROTECTION/FACE PROTECTION.

### PRECAUTIONARY STATEMENT RESPONSE

P303+P361+P353 IF ON SKIN(OR HAIR):REMOVE/TAKE OFF

IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.

P304+P340 IF INHALED:REMOVE VICTIM TO FRESH AIR AND KEEP  
AT A POSITION COMFORTABLE FOR BREATHING.

P305+P351+P338 IF IN EYES:RINSE CAUTIOUSLY WITH WATER FOR

SEVERAL MINUTES. REMOVE CONTACT LENS, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P337+P313 IF EYE IRRITATION PERSISTS:GET MEDICAL  
ADVICE/ATTENTION.

P370+P378 IN CASE OF FIRE: USE ALCOHOL FOAM OR DRY CHEMICAL POWDER FOR EXTINCTION.

#### **PRECAUTIONARY STATEMENT STORAGE**

P403+P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.

P403+P235 STORE IN A WELL-VENTILATED PLACE. KEEP COLD.

P405 STORE LOCKED UP.

#### **PRECAUTIONARY STATEMENT DISPOSAL**

P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDING WITH LOCAL REGULATION.

### **3 - COMPOSITION ON INGREDIENTS**

COMPONENT %	CAS NUMBER	CHEMICAL NAME
99.5%MIN.	109-60-4	N-PROPYL ACETATE

### **4. FIRST AID**

EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER. AFTER INITIAL FLUSHING,  
REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15  
MINUTES. HAVE EYES EXAMINED AND TESTED BY MEDICAL PERSONNEL.

SKIN: REMOVE CONTAMINATED CLOTHING/SHOES. FLUSH SKIN WITH WATER. FOLLOW  
BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL  
ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

INGESTION: DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR DROWSY. OTHERWISE,  
GIVE 2 GLASSES OF WATER AND INDUCE VOMITING. KEEP VICTIM'S HEAD  
BELOW HIPS WHILE VOMITING. CALL DOCTOR.

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL  
RESPIRATION OR IF BREATHING IS DIFFICULT, OXYGEN SHOULD BE  
ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL  
ATTENTION.

ADDITIONAL INFORMATION: NONE IDENTIFIED.

### **5. FIRE AND EXPLOSION DATA**

FLASH POINT 20.00 C  
FLAMMABLE LIMITS 0 TO 0  
AUTOIGNITION TEMPERATURE NO DATA AVAILABLE

#### **EXTINGUISHING MEDIA**

USE: WATER SPRAY, ALCOHOL FOAM, DRY CHEMICAL, OR CO2

#### **SPECIAL FIRE FIGHTING PROCEDURES**

WARNING! FLAMMABLE LIQUID. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. FIRE  
FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS. VAPORS MAY  
TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.  
WATER SPRAY MAY BE INEFFECTIVE IN FIGHTING FIRE. WATER SPRAY MAY BE USED TO  
COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE RUPTURE  
OF CONTAINERS. KEEP AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINERS  
CLOSED. USE WITH ADEQUATE VENTILATION.

### **6. ACCIDENTAL RELEASE MEASURES**

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## GENERAL PROCEDURES

WARNING. FLAMMABLE. VENTILATE AREA OF LEAK OR SPILL. REMOVE ALL SOURCES OF IGNITION. CLEAN-UP PERSONNEL REQUIRE PROTECTIVE CLOTHING AND RESPIRATORY PROTECTION FROM VAPORS. ONLY SPECIALLY TRAINED OR QUALIFIED PERSONNEL SHOULD HANDLE THE EMERGENCY.

## 7. HANDLING AND STORAGE

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### STORAGE

KEEP AWAY FROM HEAT, SPARKS, AND FLAME. KEEP AWAY FROM SOURCES OF IGNITION. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. FLAMMABLES-AREA.

### HANDLING

WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. GROUND AND BOND CONTAINERS WHEN TRANSFERRING MATERIAL. USE SPARK-PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE, (LIQUID AND/OR VAPOR), AND CAN BE DANGEROUS. KEEP CONTAINER TIGHTLY CLOSED. AVOID CONTACT WITH HEAT, SPARKS AND FLAME. AVOID INGESTION AND INHALATION. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE EMPTY CONTAINERS TO HEAT, SPARKS OR OPEN FLAMES.

### COMMENTS

KEEP OUT OF REACH OF CHILDREN! EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.

## 8. PERSONAL PROTECTION / EXPOSURE CONTROLS

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EYE AND FACE PROTECTION WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GOGGLES AS DESCRIBED BY OSHA'S EYE AND FACE PROTECTION REGULATIONS IN 29 CFR 1910.133 OR EUROPEAN STANDARD EN166.

SKIN WEAR RESISTANT GLOVES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER). TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

RESPIRATORY IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. 2) USE A NIOSH APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 9 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIR. OF AN AIR-PURIFYING RESPIR. FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING WHERE SPLASHING IS POSSIBLE, WEAR IMPERVIOUS CLOTHING AND BOOTS.

WORK HYGIENIC PRACTICES USE GOOD PERSONAL HYGIENE WHEN HANDLING THIS PRODUCT. WASH HANDS AFTER USE, BEFORE EATING, DRINKING, SMOKING, OR USING THE TOILET.

OTHER USE PRECAUTIONS FACILITIES STORING OR UTILIZING THIS MATERIAL SHOULD BE EQUIPPED WITH AN EYEWASH FACILITY AND A SAFETY SHOWER.

## 9. TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL FORM  
COLOR  
ODOR  
PH

LIQUID  
COLORLESS  
SWEET ODOR  
ESSENTIALLY NEUTRAL

EMPIRICAL FORMULA	C5H10O2
VAPOR PRESSURE (MM HG AT 20C)	23
VAPOR DENSITY (AIR = 1)	HEAVIER THAN AIR
BOILING POINT	101.5 C
FLASH POINT	20 C
MELTING POINT	-80 C
SOLUBILITY IN WATER	2.0% (20C) IN WATER.
EVAPORATION RATE	2.75 (N-BUTYL ACETATE=1)
SPECIFIC GRAVITY	0.887

## 10. STABILITY AND REACTIVITY

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STABLE: YES

CONDITIONS TO AVOID: AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION: CARBON MONOXIDE, CARBON DIOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

INCOMPATIBLE MATERIALS: STRONG OXIDIZING AGENTS, NITRIC ACID, SODIUM HYDROXIDE, ALKALI METAL HYDROXIDES.

## 11. TOXICOLOGICAL PROPERTIES

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GENERAL COMMENTS NONE IDENTIFIED

## 12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED.

## 13. DISPOSAL CONSIDERATIONS

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DISPOSAL METHOD

THE PREFERRED OPTIONS FOR DISPOSAL ARE TO SEND TO LICENSED RECLAIMERS, OR TO PERMITTED INCINERATORS. ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT DUMP INTO SEWERS, GROUND, OR ANY BODY OF WATER.

EMPTY CONTAINER

KEEP OUT OF REACH OF CHILDREN! EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. RCRA/EPA WASTE INFORMATION

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. US EPA GUIDELINES FOR THE CLASSIFICATION DETERMINATION ARE LISTED IN 40 CFR. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

#### 14. TRANSPORT INFORMATION

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DOT (DEPARTMENT OF TRANSPORTATION)  
PROPER SHIPPING NAME N-PROPYL ACETATE  
PRIMARY HAZARD CLASS/DIVISION 3  
UN/NA NUMBER UN 1276  
PACKING GROUP II  
LABEL FLAMMABLE LIQUID  
NAERG 129

#### 15. REGULATORY INFORMATION

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UNITED STATES  
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)  
FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: YES  
311/312 HAZARD CATEGORIES: THIS PRODUCT SHOULD BE REPORTED AS AN  
IMMEDIATE(ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD, AND A FIRE  
HAZARD.  
313 REPORTABLE INGREDIENTS: TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT IS NOT  
LISTED AS A TOXIC CHEMICAL.  
302/304 EMERGENCY PLANNING  
EMERGENCY PLAN: TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT IS NOT LISTED AS AN  
EXTREMELY HAZARDOUS SUBSTANCE.  
TSCA (TOXIC SUBSTANCE CONTROL ACT)  
TSCA REGULATORY: ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED  
TO BE LISTED ON THE TSCA INVENTORY.

#### 16. OTHER INFORMATION

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HMS CODES  
FLAMMABILITY: 3 HEALTH: 2 PHYSICAL HAZARD: 0 PERSONAL PROTECTION: H

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MSDS CREATION DATE: 01/01/2017  
REVISION DATE: 01/01/2019

PRODUCT CODE N-PROPYL ACETATE