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SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) NO. 1907/2006

VERSION 5.2 REVISION DATE 21.05.2014

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIERS

PRODUCT NAME : MALTOL

PRODUCT NUMBER :

BRAND : JINGDA

REACH NO. : A REGISTRATION NUMBER IS NOT AVAILABLE FOR THIS SUBSTANCE AS THE SUBSTANCE

OR ITS USES ARE EXEMPTED FROM REGISTRATION, THE ANNUAL TONNAGE DOES NOT REQUIRE A REGISTRATION OR THE REGISTRATION IS ENVISAGED FOR A LATER REGISTRATION DEADLINE.

CAS-NO. : 118-71-8

Assay: Maltol \geq 99.5%, Water \leq 0.5%

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

IDENTIFIED USES : LABORATORY CHEMICALS, MANUFACTURE OF SUBSTANCES

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY : ANHUI JINHE INDUSTRIAL CO.,LTD

127 EAST STREET, LAIAN COUNTY, ANHUI, P.R.CHINA

TELEPHONE : +86 550 5619090

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1.4 EMERGENCY TELEPHONE NUMBER

EMERGENCY PHONE # : +86 550 5623638

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

SKIN IRRITATION (CATEGORY 2), H315

EYE IRRITATION (CATEGORY 2), H319

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (CATEGORY 3), H335
FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE
SECTION 16.

CLASSIFICATION ACCORDING TO EU DIRECTIVES 67/548/EEC OR 1999/45/EC

XN HARMFUL R22, R36/37/38

FOR THE FULL TEXT OF THE R-PHRASES MENTIONED IN THIS SECTION, SEE SECTION
16.

2.2 LABEL ELEMENTS

LABELLING ACCORDING REGULATION (EC) NO 1272/2008

PICTOGRAM



SIGNAL WORD WARNING

Hazard statement(s)

H302 HARMFUL IF SWALLOWED.
H315 CAUSES SKIN IRRITATION.
H319 CAUSES SERIOUS EYE IRRITATION.
H335 MAY CAUSE RESPIRATORY IRRITATION.

Precautionary statement(s)

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.

2.3 OTHER HAZARDS - NONE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

SYNONYMS : 3-HYDROXY-2-METHYL-4-PYRONE

MALTOL

FORMULA : C₆H₆O₃

MOLECULAR WEIGHT: 126,11 G/MOL

CAS-NO. : 118-71-8

EC-NO. : 204-271-8

HAZARDOUS INGREDIENTS ACCORDING TO REGULATION (EC) NO 1272/2008

COMPONENT CLASSIFICATION CONCENTRATION

3-HYDROXY-2-METHYL-1,4-PYRONE

CAS-NO.118-71-8

EC-NO.204-271-8

ACUTE TOX. 4; SKIN IRRIT. 2; EYE

IRRIT. 2; STOT SE 3; H302,

H315, H319, H335

<= 100 %

HAZARDOUS INGREDIENTS ACCORDING TO DIRECTIVE 1999/45/EC

COMPONENT CLASSIFICATION CONCENTRATION

3-HYDROXY-2-METHYL-1,4-PYRONE

CAS-NO.118-71-8

EC-NO.204-271-8

XN, R22 - R36/37/38 <= 100 %

FOR THE FULL TEXT OF THE H-STATEMENTS AND R-PHRASES MENTIONED IN THIS SECTION, SEE SECTION 16

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE

CONSULT A PHYSICIAN. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

IF INHALED

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. CONSULT A PHYSICIAN.

IN CASE OF SKIN CONTACT

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

IN CASE OF EYE CONTACT

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

IF SWALLOWED

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO DATA AVAILABLE

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

CARBON OXIDES

5.3 ADVICE FOR FIREFIGHTERS

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

5.4 FURTHER INFORMATION

NO DATA AVAILABLE

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

USE PERSONAL PROTECTIVE EQUIPMENT. AVOID DUST FORMATION. AVOID BREATHING VAPOURS, MIST OR GAS. ENSURE



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ADEQUATE VENTILATION. EVACUATE PERSONNEL TO SAFE AREAS. AVOID BREATHING DUST.

FOR PERSONAL PROTECTION SEE SECTION 8.

6.2 ENVIRONMENTAL PRECAUTIONS

DO NOT LET PRODUCT ENTER DRAINS.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

PICK UP AND ARRANGE DISPOSAL WITHOUT CREATING DUST. SWEEP UP AND SHOVEL.

KEEP IN SUITABLE, CLOSED

CONTAINERS FOR DISPOSAL.

6.4 REFERENCE TO OTHER SECTIONS

FOR DISPOSAL SEE SECTION 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

AVOID CONTACT WITH SKIN AND EYES. AVOID FORMATION OF DUST AND AEROSOLS.

PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED.

FOR PRECAUTIONS SEE SECTION 2.2.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORE IN COOL PLACE. KEEP CONTAINER TIGHTLY CLOSED IN A DRY AND WELL-VENTILATED PLACE.

7.3 SPECIFIC END USE(S)

APART FROM THE USES MENTIONED IN SECTION 1.2 NO OTHER SPECIFIC USES ARE STIPULATED

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

8.2 EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

WASH HANDS BEFORE BREAKS AND

AT THE END OF WORKDAY.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

SAFETY GLASSES WITH SIDE-SHIELDS CONFORMING TO EN166 USE EQUIPMENT FOR EYE PROTECTION TESTED

AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

SKIN PROTECTION

HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE

(WITHOUT TOUCHING GLOVE'S OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF

CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES.

WASH AND DRY HANDS.



THE SELECTED PROTECTIVE GLOVES HAVE TO SATISFY THE SPECIFICATIONS OF EU DIRECTIVE 89/686/EEC AND

THE STANDARD EN 374 DERIVED FROM IT.

FULL CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0,11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL® (KCL 740 / ALDRICH Z677272, SIZE M)

SPLASH CONTACT

MATERIAL: NITRILE RUBBER

MINIMUM LAYER THICKNESS: 0,11 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED:DERMATRIL® (KCL 740 / ALDRICH Z677272, SIZE M)

DATA SOURCE: KCL GMBH, D-36124 EICHENZELL, PHONE +49 (0)6659 87300, E-MAIL

SALES@KCL.DE,

TEST METHOD: EN374

IF USED IN SOLUTION, OR MIXED WITH OTHER SUBSTANCES, AND UNDER CONDITIONS WHICH DIFFER FROM EN 374,

CONTACT THE SUPPLIER OF THE CE APPROVED GLOVES. THIS RECOMMENDATION IS ADVISORY ONLY AND MUST

BE EVALUATED BY AN INDUSTRIAL HYGIENIST AND SAFETY OFFICER FAMILIAR WITH THE SPECIFIC SITUATION OF

ANTICIPATED USE BY OUR CUSTOMERS. IT SHOULD NOT BE CONSTRUED AS OFFERING AN APPROVAL FOR ANY

SPECIFIC USE SCENARIO.

BODY PROTECTION

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED

ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION

FOR NUISANCE EXPOSURES USE TYPE P95 (US) OR TYPE P1 (EU EN 143) PARTICLE RESPIRATOR.FOR HIGHER

LEVEL PROTECTION USE TYPE OV/AG/P99 (US) OR TYPE ABEK-P2 (EU EN 143) RESPIRATOR CARTRIDGES.

USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS

SUCH AS NIOSH (US) OR CEN (EU).

CONTROL OF ENVIRONMENTAL EXPOSURE

DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

A) APPEARANCE FORM: CRYSTALLINE POWDER

COLOUR: WHITE TO PALE YELLOW



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- B) ODOUR : FRUITY
C) ODOUR THRESHOLD NO DATA AVAILABLE
D) PH NO DATA AVAILABLE
E) MELTING POINT/FREEZING POINT
MELTING POINT/RANGE: 161 - 163 °C
F) INITIAL BOILING POINT AND
BOILING RANGE 284,7 °C AT 1.013 HPA
G) FLASH POINT 110 °C MIN
H) EVAPOURATION RATE NO DATA AVAILABLE
I) FLAMMABILITY (SOLID, GAS) NO DATA AVAILABLE
J) UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS NO DATA AVAILABLE
K) VAPOUR PRESSURE NO DATA AVAILABLE
L) VAPOUR DENSITY NO DATA AVAILABLE
M) RELATIVE DENSITY NO DATA AVAILABLE
N) WATER SOLUBILITY INSOLUBLE, ORGANIC SOLVENTS 1.2G/100ML SOLUBLE
O) PARTITION COEFFICIENT: NOCTANOL/WATER NO DATA AVAILABLE
P) AUTO-IGNITION TEMPERATURE NO DATA AVAILABLE Q)
DECOMPOSITION TEMPERATURE NO DATA AVAILABLE R)
VISCOSITY NO DATA AVAILABLE
S) EXPLOSIVE PROPERTIES NO DATA AVAILABLE
T) OXIDIZING PROPERTIES NO DATA AVAILABLE
U) IGNITION TEMPERATURE: 740 °C

9.2 OTHER SAFETY INFORMATION

SOLUBILITY IN OTHER SOLVENTS

METHANOL 50 G/L - SOLUBLE

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY NO DATA AVAILABLE

10.2 CHEMICAL STABILITY STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS NO DATA AVAILABLE

10.4 CONDITIONS TO AVOID NO DATA AVAILABLE

10.5 INCOMPATIBLE MATERIALS STRONG OXIDIZING AGENTS

10.6 HAZARDOUS DECOMPOSITION PRODUCTS OTHER DECOMPOSITION PRODUCTS -
NO DATA AVAILABLE

IN THE EVENT OF FIRE: SEE SECTION 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

LD50 ORAL - RAT - 1.410 MG/KG

LD50 ORAL - MOUSE - 550 MG/KG

LD50 ORAL - RABBIT - 1.620 MG/KG

LD50 SUBCUTANEOUS - MOUSE - 820 MG/KG

SKIN CORROSION/IRRITATION

SKIN — RABBIT RESULT: IRRITATING TO SKIN. - 24 H

SERIOUS EYE DAMAGE/EYE IRRITATION NO DATA AVAILABLE



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RESPIRATORY OR SKIN SENSITIZATION NO DATA AVAILABLE

GERM CELL MUTAGENICITY NO DATA AVAILABLE

CARCINOGENICITY

IARC: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS

PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

REPRODUCTIVE TOXICITY NO DATA AVAILABLE

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE INHALATION - MAY CAUSE RESPIRATORY IRRITATION.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE NO DATA AVAILABLE

ASPIRATION HAZARD NO DATA AVAILABLE

ADDITIONAL INFORMATION

RTECS: NOT AVAILABLE

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY NO DATA AVAILABLE

12.2 PERSISTENCE AND DEGRADABILITY NO DATA AVAILABLE

12.3 BIOACCUMULATIVE POTENTIAL NO DATA AVAILABLE

12.4 MOBILITY IN SOIL NO DATA AVAILABLE

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED

12.6 OTHER ADVERSE EFFECTS NO DATA AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

PRODUCT

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER. OFFER SURPLUS AND NON-RECYCLABLE SOLUTIONS TO A LICENSED DISPOSAL COMPANY.

CONTAMINATED PACKAGING DISPOSE

OF AS UNUSED PRODUCT. **SECTION 14:**

TRANSPORT INFORMATION

14.1 UN NUMBER ADR/RID: - IMDG: - IATA: -

14.2 UN PROPER SHIPPING NAME

ADR/RID: NOT DANGEROUS GOODS

IMDG: NOT DANGEROUS GOODS

IATA: NOT DANGEROUS GOODS

14.3 TRANSPORT HAZARD CLASS(ES) ADR/RID: - IMDG: - IATA: -

14.4 PACKAGING GROUP ADR/RID: - IMDG: - IATA: -

14.5 ENVIRONMENTAL HAZARDS ADR/RID: NO IMDG MARINE POLLUTANT: NO IATA: NO



14.6 SPECIAL PRECAUTIONS FOR USER NO DATA AVAILABLE

SECTION 15: REGULATORY INFORMATION

THIS SAFETY DATASHEET COMPLIES WITH THE REQUIREMENTS OF REGULATION (EC) NO. 1907/2006.

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

NO DATA AVAILABLE

15.2 CHEMICAL SAFETY ASSESSMENT

FOR THIS PRODUCT A CHEMICAL SAFETY ASSESSMENT WAS NOT CARRIED OUT

SECTION 16: OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

ACUTE TOX. ACUTE TOXICITY

EYE IRRIT. EYE IRRITATION

H302 HARMFUL IF SWALLOWED.

H315 CAUSES SKIN IRRITATION.

H319 CAUSES SERIOUS EYE IRRITATION.

H335 MAY CAUSE RESPIRATORY IRRITATION.

SKIN IRRIT. SKIN IRRITATION

FULL TEXT OF R-PHRASES REFERRED TO UNDER SECTIONS 2 AND 3

XN HARMFUL

R22 HARMFUL IF SWALLOWED.

R36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

FURTHER INFORMATION

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Quality Manager

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