

**MATERIAL SAFETY DATA SHEET**

AMRESKO INC.  
30175 SOLON INDUSTRIAL PARKWAY  
SOLON, OHIO 44139

EMERGENCY TELEPHONE NUMBER:  
CHEMTREC (800) 424-9300

TELEPHONE NUMBER FOR INFORMATION:  
(800) 448-4442 OR (440) 349-1199

DATE PREPARED: 8-14-01

DATE REVISED: 11-7-06

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

CODE #: J316  
NAME: L-TARTARIC ACID, ACS  
CAS #: 87-69-4

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

MF: C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>  
MW: 150.09  
EC NO: 201-766-0

**SYNONYMS**

BUTANEDIOIC ACID, 2,3-DIHYDROXY- \* DEXTROTARTARIC ACID \* 2,3-DIHYDROSUCCINIC ACID \* 2,3-DIHYDROXYBUTANEDIOIC ACID \* 1,2-DIHYDROXYETHANE-1,2-DICARBOXYLIC ACID \* D-ALPHA,BETA-DIHYDROXYSUCCINIC ACID \* KYSELINA 2,3-DIHYDROXYBUTANDIOVA (CZECH) \* KYSELINA VINNA (CZECH) \* MALIC ACID, 3-HYDROXY- \* SUCCINIC ACID, 2,3-DIHYDROXY- \* THREARIC ACID \* (+)-TARTARIC ACID \* (+)-L-TARTARIC ACID \* (+)-(R,R)-TARTARIC ACID \* D-TARTARIC ACID \* L-TARTARIC ACID \* L-(+)-TARTARIC ACID \* (R,R)-(+)-TARTARIC ACID \* (2R,3R)-(+)-TARTARIC ACID \* (R,R)-TARTARIC ACID \*

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

**LABEL PRECAUTIONARY STATEMENTS**

IRRITANT  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
COMBUSTIBLE  
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
WEAR SUITABLE PROTECTIVE CLOTHING.

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

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.  
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.

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

EXTINGUISHING MEDIA

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
SPECIAL FIREFIGHTING PROCEDURES  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO  
PREVENT CONTACT WITH SKIN AND EYES.  
UNUSUAL FIRE AND EXPLOSIONS HAZARDS  
COMBUSTIBLE  
FLASHPOINT: 150°C  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, BOOTS AND HEAVY 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.

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

REFER TO SECTION 8.

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

SAFETY SHOWER AND EYE BATH.  
MECHANICAL EXHAUST REQUIRED.  
WASH THOROUGHLY AFTER HANDLING.  
DO NOT BREATHE DUST.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
AVOID PROLONGED OR REPEATED EXPOSURE.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
CHEMICAL SAFETY GOGGLES.  
KEEP AWAY FROM HEAT AND OPEN FLAME.  
KEEP TIGHTLY CLOSED.  
STORE IN A COOL DRY PLACE.

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

APPEARANCE  
SOLID.  
PHYSICAL PROPERTIES  
MELTING POINT: 170 - 172°C  
VAPOR DENSITY: 5.18 G/L  
PH: 1,0 - 2,0

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

STABILITY  
STABLE.  
INCOMPATIBILITIES  
BASES  
OXIDIZING AGENTS  
REDUCING AGENTS  
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
CARBON MONOXIDE, CARBON DIOXIDE  
HAZARDOUS POLYMERIZATION  
WILL NOT OCCUR.

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

ACUTE EFFECTS

MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. SWALLOWED OR INHALED.

CAUSES EYE AND SKIN IRRITATION.

MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: WW7875000

TARTARIC ACID

TOXICITY DATA

IVN-MUS LD50:485 MG/KG

JAFCAU 5,759,1957

TARGET ORGAN DATA

BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)

BLOOD (HEMORRHAGE)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

(RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR

COMPLETE INFORMATION.

**SECTION 12.----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

**SECTION 13.----- DISPOSAL CONSIDERATIONS -----**

OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**SECTION 14.----- TRANSPORT INFORMATION -----**

NOT REGULATED.

**SECTION 15.----- REGULATORY INFORMATION -----**

EUROPEAN INFORMATION

IRRITANT

R 36/37/38

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

R 7

MAY CAUSE FIRE

S: 15

KEEP AWAY FROM HEAT.

S 36/37/39

WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

NOES 1983: HZD X4599; NIS 25; TNF 1626; NOS 25; TNE 26774; TFE 5527

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA SECTION 8(D) UNPUBLISHED HEALTH/SAFETY STUDIES

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

**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. AMRESKO INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.