



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0263
PRODUCT NAME PROPIONIC ACID
SUPPLIER Shanghai M & U International Trade Co., Ltd.
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200333 Shanghai, China
+86-21-32515501 32515502
sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

SEE BELOW

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM	PROPIONIC ACID
Molecular Formula	C3 H6 O2
Molecular Weight	74.08
CAS-No	EC-No
79-09-4	201-176-3

4. FIRST-AID GUIDE:

Eyes

IMMEDIATELY FLUSH EYES WITH LARGE QUANTITIES OF COLD CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN IMMEDIATELY

Skin

WASH WITH SOAP AND WATER. FLUSH WITH LARGE QUANTITIES OF WATER. IF IRRITATION PERSISTS CALL A PHYSICIAN

Inhalation

REMOVE TO FRESH AIR AND CALL A PHYSICIAN IF NECESSARY

Ingestion

ADMINISTER WATER OR MILK TO DILUTE. CONTACT A PHYSICIAN OR LOCAL POISON CONTROL CENTER IMMEDIATELY. **DO NOT** INDUCE VOMITING

5. FIRE-FIGHTING GUIDE:

Flash Point (°F)	126	Method Used	CLOSED CUP
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Extinguishing Media

Carbon Dioxide; Dry Chemical; Universal Type Foam

Special Fire Fighting Procedures

Evacuate unprotected and untrained personnel. Trained firefighting personnel should be equipped with self-contained breathing apparatus and full protective gear

Unusual Fire, Explosion and Stability Hazards

EMITS TOXIC FUMES UNDER FIRE CONDITIONS

6. ACCIDENTAL RELEASE GUIDE:

REMOVE ANY SOURCES OF FLAME OR SPARKS. IF IN A CONFINED AREA NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. ABSORB SPILLS ON VERMICULITE OR OTHER SUITABLE ABSORBENT MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER

7. HANDLING AND STORAGE:

IT IS RECOMMENDED THAT THIS MATERIAL BE STORED IN TIGHT FULL CONTAINERS IN A COOL, DRY PLACE AWAY FROM LIGHT

8. EXPOSURE AND PERSONAL PROTECTION:

Eyes

IN GENERAL, THE USE OF SAFETY GLASSES IS RECOMMENDED. IF THE MATERIAL IS TO BE HANDLED IN A MANNER WHERE SPLASHING MAY OCCUR, THE USE OF SPLASH GOGGLES OR FACE SHIELD IS RECOMMEND

Respiratory

IN WELL VENTILATED AREAS RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN CONFINED, POORLY VENTILATED AREAS THE USE OF NIOSH-APPROVED RESPIRATORY PROTECTION MAYBE REQUIRED OR IF MATERIAL IS RATED TOXIC BY INHALATION

Equipment and Apparel

THE USE OF CHEMICAL RESISTANT GLOVES IS RECOMMENDED. ACCEPTABLE INDUSTRIAL HYGIENE PRACTICES SHOULD BE MAINTAINED. LIMIT EXPOSURE TO PRODUCT WHENEVER POSSIBLE, WASH AFTER ANY CONTACT. THOROUGHLY WASH ANY CONTAMINATED CLOTHING OR SHOES

Ventilation

VENTILATION MEETING ACGIH STANDARDS SHOULD BE EMPLOYED

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State	LIQUID
% Volatile	100
Odor	STRONG, ACRID
Melting Point (°C)	20.7
Color	COLORLESS TO PALE YELLOW
Vapor Density (Air = 1)	2.55
Solubility in Water	SOLUBLE
Refractive Index @ 20C	N/A
Boiling Point (oC)	141
Water Content	N/A
Vapor Pressure (mm Hg @ 20oC)	2.9
Alcohol Content	N/A
Specific Gravity @ 25C (H2O=1.0)	0.995

10. STABILITY AND REACTIVITY:

This material presents no significant hazard. Hazardous Polymerization will not occur and it will not react violently with water

Contact with highly reactive chemical oxidants should be avoided. If burned this product will produce carbon monoxide and/or carbon dioxide

11. DISPOSAL RECOMMENDATIONS:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

12. TRANSPORTATION INFORMATION:

DOT
PROPIONIC ACID 8 UN1848, PG III

IMDG
PROPIONIC ACID 8 UN1848, PG III

IATA
PROPIONIC ACID 8 UN1848, PG III

13. REGULATORY INFORMATION:

Carcinogenicity
NTP NO
OSHA NO

IARC MONOGRAPH	NO
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED

Acute Toxicity Data

ORAL LD50	3.5 G/KG RAT
DERMAL LD50	0.5 G/KG RABBIT
INHALATION LC50	5.5 MG/L/4 HRS RAT

Health Hazards (Acute and Chronic)

Skin Contact	MAY CAUSE IRRITATION
Inhalation	NOT ESTABLISHED
Eye Contact	MAY CAUSE IRRITATION
Ingestion	NOT ESTABLISHED

Other Effects

The health hazard information is based on laboratory animal test data for the individual components of this product in their pure form as provided under 29 CFR 1910.1200 (d)(5)(ii). The user should consider the relevancy of this information in a manner consistent with its particular purpose

US FEDERAL

HMIS III: PHYSICAL HAZARD: 1
HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0 PERSONAL PROTECTION: X

TSCA

CAS# 79-09-4 IS LISTED ON THE TSCA INVENTORY

HEALTH & SAFETY REPORTING LIST

NONE OF THE CHEMICALS ARE ON THE HEALTH & SAFETY REPORTING LIST

CHEMICAL TEST RULES

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER A CHEMICAL TEST RULE

SECTION 12B

NONE OF THE CHEMICALS ARE LISTED UNDER TSCA SECTION 12B.\

TSCA SIGNIFICANT NEW USE RULE

NONE OF THE CHEMICALS IN THIS MATERIAL HAVE A SNUR UNDER TSCA

SARA CERCLA HAZARDOUS SUBSTANCES AND CORRESPONDING RQS

CAS# 79-09-4: 5000 LB FINAL RQ; 2270 KG FINAL RQ

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

NONE OF THE CHEMICALS IN THIS PRODUCT HAVE A TPQ

SARA CODES

CAS # 79-09-4: ACUTE, FLAMMABLE.

SECTION 313

NO CHEMICALS ARE REPORTABLE UNDER SECTION 313

CLEAN AIR ACT

THIS MATERIAL DOES NOT CONTAIN ANY HAZARDOUS AIR POLLUTANTS

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 1 OZONE DEPLETORS

THIS MATERIAL DOES NOT CONTAIN ANY CLASS 2 OZONE DEPLETORS

CLEAN WATER ACT

CAS# 79-09-4 IS LISTED AS A HAZARDOUS SUBSTANCE UNDER THE CWA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS PRIORITY
POLLUTANTS UNDER THE CWA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED AS TOXIC POLLUTANTS
UNDER THE CWA

OSHA

NONE OF THE CHEMICALS IN THIS PRODUCT ARE CONSIDERED HIGHLY
HAZARDOUS BY OSHA

STATE

CAS# 79-09-4 CAN BE FOUND ON THE FOLLOWING STATE RIGHT TO KNOW LISTS:
CALIFORNIA, NEW JERSEY, PENNSYLVANIA, MINNESOTA, MASSACHUSETTS

CALIFORNIA NO SIGNIFICANT RISK LEVEL

NONE OF THE CHEMICALS IN THIS PRODUCT ARE LISTED

EUROPEAN/INTERNATIONAL REGULATIONS**EUROPEAN LABELING IN ACCORDANCE WITH EC DIRECTIVES****HAZARD SYMBOLS**

C

RISK PHRASES

R 34 CAUSES BURNS

SAFETY PHRASES

S 16 KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING

S 23 DO NOT INHALE GAS/FUMES/VAPOR/SPRAY

S 33 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES

S 36 WEAR SUITABLE PROTECTIVE CLOTHING

- S 45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL
ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE)
S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE

WGK (WATER DANGER/PROTECTION)

CAS# 79-09-4: 1

CANADA - DSL/NDSL

CAS# 79-09-4 IS LISTED ON CANADA'S DSL LIST

CANADA - WHMIS

THIS PRODUCT HAS A WHMIS CLASSIFICATION OF B3, D1B, E

CANADIAN INGREDIENT DISCLOSURE LIST

CAS# 79-09-4 IS LISTED ON THE CANADIAN INGREDIENT DISCLOSURE LIST

EXPOSURE LIMITS

CAS# 79-09-4: OEL-AUSTRALIA:TWA 10 PPM (30 MG/M3);STEL 15 PPM (45 MG /M3)
OEL-BELGIUM:TWA 10 PPM (30 MG/M3);STEL 15 PPM (45 MG/M3) OEL-
DENMARK:TWA 10 PPM (30 MG/M3) OEL-FRANCE:TWA 10 PPM (30 MG/M3) OEL-
GERMANY:TWA 10 PPM (30 MG/M3) OEL-THE NETHERLANDS:TWA 10 PPM (30
MG/M3) OEL-RUSSIA:STEL 20 MG/M3 OEL-SWITZERLAND:TWA 10 PPM (30
MG/M3);STEL 20 PPM (60 MG/M3) OEL-UNITED KINGDOM:TWA 10 PPM (30
MG/M3);STEL 15 PPM (45 MG/M3) OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA
CHECK ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM CHECK ACGI
TLV

14. OTHER INFORMATION:

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