

PROFORMA INVOICE

TO: FANCY LEATHER ENTERPRISE

Address: PLOT NO.YS-24, CHAMRA SHILPA NAGARI, JHAUCHAR, HEMAYETPUR, SAVAR PS,
DHAKA-1340**CONTRACT NO.:** LXHG-HG-JSWMXS-221078-20221120**CONTRACT DATE:** Nov. 20, 2022**INVOICE NO.:** LXHG-HG-JSWMXS-221078**INVOICE DATE:** Nov. 20, 2022**PAYMENT TERM:** 100% L/C AT SIGHT

MARKS AND NUMBERS	DESCRIPTION OF GOODS	QUANTITY/WEIGHT	UNIT PRICE	AMOUNT
N/M	FORMIC ACID 85% MIN PURITY COUNTRY OF ORIGIN: CHINA PACKING IN 35KG SQUARE DRUM HS CODE: 2915.11.00	23.975 MTS	USD 690/MT CFR CHATTOGRAM, BANGLADESH FOB QINGDAO USD590MT SEAFREIGHT: USD100/MT	SAY TOTAL: USD 16542.75
SAY TOTAL: US. DOLLAR SIXTEEN THOUSAND FIVE HUNDRED AND FORTY-TWO AND CENTS SEVENTY-FIVE ONLY.				
PORT OF LOADING: QINGDAO, CHINA PORT OF DISCHARGE: CHATTOGRAM, BANGLADESH				
REMARKS: BENEFICIARY'S NAME: LIAOCHENG LUXI FORMIC ACID CHEMICAL CO.,LTD BANK NAME: BANK OF CHINA LIMITED DONGE SUB-BRANCH BANK ADDRESS: 99 QINGNIAN ROAD,DONGE,SHANDONG PROVINCE CHINA SWIFT CODE: BKCHCNBJ500 A/C NO: 224713167341				

聊城鲁西甲酸化工有限公司
LIAOCHENG LUXI FORMIC ACID CHEMICAL CO., LTD.
LIAOCHENG LUXI FORMIC ACID CHEMICAL CO.,LTD

赵蒙

New Chemical Materials Industrial Park, High Tech Industrial Development Zone, Liaocheng, Shandong, China

Web: <http://en.luxichemical.com>

Tel: 0086-635-3481038

E-mail: info@lxhg.com



NEWAY ENTERPRISES LTD

Add: FLAT 32 ADVENTURES COURT, 12 NEWPORT AVENUE, LONDON E14 2DN, ENGLAND

PROFORMA INVOICE

DATE: AUG.12,2024

INVOICE NO.: 24NELS58035

ACCOMTEE: M/S FANCY LEATHER ENTERPRISE

ADDRESS: PLOT NO. YS-24, CHAMRA SHILPA NAGARI, JHAUCHAR, HEMAYETPUR,
SAVAR, DHAKA-1340, BANGLADESH

CONTRACT NO.: 24NELS58035

SHIPPING MARKS	DESCRIPTION OF GOODS & QUANTITY	UNIT PRICE	AMOUNT
N/M	FORMIC ACID 85% MIN QUANTITY :21.98MT PACKED IN 628 DRUMS OF 35KG SQUARE DRUM H.S. CODE NO.29151100 ORIGIN:CHINA	USD 510/MT FOB ANY PORT ,CHINA	FOB VALUE USD11,209.80
		USD 150/MT SEA FREIGHT	FREIGHT CHARGE USD3,297.00
		USD 660/MT CFR CHATTOGRAM PORT ,BANGLADESH	CFR VALUE USD14,506.80
TOTAL: SAY U.S FOURTEEN THOUSAND FIVE HUNDRED AND SIX AND EIGHTY CENTS			

SHIPMENT: FROM ANY PORT, CHINA TO CHATTOGRAM PORT , BANGLADESH BY SEA

PAYMENT: LC AT SIGHT (BUYER SHOULD PAY FULL AMOUNT OF PI VALUE)

REMARKS:

1. TRANSSHIPMENT ALLOWED AND PARTIAL SHIPMENT ALLOWED.
2. ORIGIN SHOULD BE FROM LUXI BRAND
3. DELIVERY DATE SHIPMENT BEFORE END OF SEPTEMBER, 2024
4. INSURANCE COVERED BY THE BUYER
5. THIRD PARTY DOCUMENTS ACCEPTABLE.
6. THE BUYER MUST GIVE THE DRAFT L/C FOR SELLER'S CONFIRMATION AND OPEN THE ORIGINAL L/C WITHIN 15 DAYS FROM THE PI DATE.
7. DOCUMENTS TO BE PRESENTED WITHIN 21 DAYS AFTER SHIPMENT DATE BUT WITHIN VALIDITY OF THE CREDIT.
8. L/C DIRECTLY TO BANK OF COMMUNICATIONS CO., LTD/BANK OF CHINA
9. PI VALIDITY: OCT.12,2024

RECEIVER NAME: NEWAY ENTERPRISES LTD

SELLER'S BANK: BANK OF COMMUNICATIONS CO., LTD OFFSHORE BANKING UNIT

ADDRESS: NO 188, YINCHENG ZHONG ROAD, SHANGHAI, CHINA

ACCOUNT NO.: OSA90000123521100 (ONLY OSA IS LETTER)

SWIFT CODE: COMMCN3XOBU (ONLY 3 IS NUMBER)

For and on behalf of
NEWAY ENTERPRISES LTD
Mandy
Authorized Signature(s)

Reprint From MFA-0000-000000

Instance Type and Transmission

Notification

(Transmission) of Original sent to SWIFT (ACK)

Network Delivery Status: Network Ack

Priority/Delivery : Normal

Message Input Reference : 1552 221122AGBKBDHA0055233643003

Message Header

Swift Input: FIN 700 Issue of a Documentary Credit
Sender : AGBKBDDH005
AGRANI BANK, RAMNA BRANCH, DHAKA (PHAKA)
(RAMNA BRANCH, DHAKA)
DHAKA BD
Receiver : BKCHCNBJ500
BANK OF CHINA
(SHANDONG BRANCH)
JINAN CN

Message Text

F27: Sequence of Total
Number: 1/
Total: 1
F40A: Form of Documentary Credit
IRREVOCABLE
F20: Documentary Credit Number
000522010301
F31C: Date of Issue
221121 2022 Nov 21
F40E: Applicable Rules
Applicable Rules: UCP LATEST VERSION
F31D: Date and Place of Expiry
Date: 230121 2023 Jan 21
Place: CHINA
F50: Applicant
FANCY LEATHER ENTERPRISE, PLOT NO.
YS-24, CHAMRA SHILPA NAGARI,
JHAUCHAR, HEMAYETPUR, SAVAR,
DHAKA-1340
F59: Beneficiary
Name and Address:
LIAOCHENG LUXI FORMIC ACID
CHEMICAL CO., LTD., HIGH TECH
INDUSTRIAL DEVELOPMENT ZONE,
LIAOCHENG, SHANDONG, CHINA
F32B: Currency Code, Amount
Currency: USD US DOLLAR
Amount: 16542,75 #16542,75#
F41D: Available With ... By ... - Name and Address - Code
Name and Address: ANY BANK IN CHINA
Code: BY NEGOTIATION
F42C: Drafts at ...
AT SIGHT
F42D: Drawee - Party Identifier - Name and Address
Name and Address:
AGRANI BANK LIMITED
RAMNA CORPORATE BRANCH
18, BANGABANDHU AVENUE
DHAKA, BANGLADESH.
F43P: Partial Shipments
ALLOWED
F43T: Transshipment
ALLOWED
F44E: Port of Loading/Airport of Departure
ANY SEA PORT OF CHINA
F44F: Port of Discharge/Airport of Destination
CHATTOGRAM SEA PORT, BANGLADESH
F44C: Latest Date of Shipment
221231 2022 Dec 31

F45A: Description of Goods and/or Services

FORMIC ACID 85PCT MIN PURITY: QUALITY, QUANTITY, DESCRIPTION
SPECIFICATION AND PRICE AND ALL OTHER DETAILS AS PER PROFORMA
INVOICE NO:LXHG-HG-JSWMXS-221078 DATE:20-11-2022 OF
THE BENIFICIARY CFR(INCOTERMS:2020) CHATTOGRAM.

F46A: Documents Required

- 01.COMMERCIAL INVOICE (1 X 5) SIGNED BY THE BENEFICIARY
CERTIFYING MERCHANDISE TO BE OF CHINA ORIGIN.
- 02.FULL SET OF CLEAN SHIPPED ON BOARD OCEAN BILL OF LADING
DRAWN OR ENDORSED TO THE ORDER OF AGRANI BANK LIMITED.RAMNA
CORPORATE BRANCH DHAKA, BANGLADESH SHOWING FREIGHT PREPAID
MARKED NOTIFY APPLICANT AND US.
- 03.PACKING LIST IN DETAILS QUADRUPLICATE REQUIRED.
- 04.CERTIFICATE OF ORIGIN ISSUED BY THE COMPETENT AUTHORITY OF THE
EXPORTING COUNTRY SHOULD ACCOMPANY THE ORIGINAL DOCUMENTS.
- 05.BENEFICIARY'S CERTIFICATE STATING THAT THE
MERCHANDISE HAVE BEEN SHIPPED AS PER RELATED PROFORMA INVOICE
NO.AND THAT ALL OTHER TERMS AND CONDITIONS SPECIFIED THEREIN
HAVE FULLY BEEN COMPLIED WITH.
- 06.DRAFT MUST BE MARKED DRAWN UNDER THIS CREDIT NUMBER.
- 07.FULL SETS OF ORIGINAL DOCS TO BE SENT TO OUR MAILING ADDRESS
AGRANI BANK LIMITED, RAMNA CORPORATE BRANCH,18,BANGHABANDHU
AVENUE, DHAKA, BANGLADESH DIRECTLY BY THE NEGOTIATING BANK
BY COURIER.

F47A: Additional Conditions

- 01.GOODS IMPORTED AGAINST LCA NO.131142,REG. NO.BA-157705 HS CODE
NO 2915.11.00 VAT REG.NO.000318825-0403 ,PROFORMA INVOICE
NO.LXHG-HG-JSWMXS-221078 DATE:20-11-2022 THIS LC
NO.000522010301 ARE TO BE QUOTED IN ALL DOCUMENTS.
- 02.INSURANCE COVERED BY APPLICANT. ALL SHIPMENT UNDER THIS
CREDIT MUST BE ADVISED BY BENEFICIARY WITHIN 10 DAYS AFTER
SHIPMENT DIRECT TO PRIME INSURANCE COMPANY LIMITED,
CENTEAL DEVELOPMENT UNIT, UNIQUE HEIGHTS, 117, KAZI
NAZRUL ISLAM AVENUE, DHAKA, BANGLADESH AND TO THE APPLICANT
REFERRING TO COVER NOTE NO.PICL/CDU/MC-0407/11/2022
DATE:21-11-2022 GIVING FULL DETAILS OF SHIPMENT AND SENT
EMAIL TO CDU(AT)PRIME-INSURANCE.NET. A COPY OF THIS
ADVICE IS TO ACCOMPANY EACH SET OF DOC.
- 03.FORWARDERS CARGO RECEIPT, CHARTER PARTY BILL OF LADING, SHORT
FORM BILL OF LADING, STALE AND BLANK BACKED B/L ARE NOT
ACCEPTABLE.
- 04.BILL OF LADING MUST SHOW GROSS AND NET WEIGHT OF GOODS.
- 05.COUNTRY OF ORIGIN SHOULD CLEARLY BE MENTIONED ON
CONTAINER/BALE/ROLL/PACKAGES.
- 06.NAME OF PRODUCT,COUNTRY OF ORIGIN,NET WEIGHT,GROSS WEIGHT,NAME
,ADDRESS AND IMPORTERS TIN NO.347147530049,BIN /VAT REG.NO.
000318825-0403 AND BANKERS TIN NO.002-2001221,BIN
NO.000000221 SHOULD BE CLEARLY MENTIONED ON EACH LABEL OF
PACKING UNIT.
- 07.A SET OF NON-NEGOTIABLE SHIPPING DOCUMENTS I.E.INVOICE,
PACKING LIST, BILL OF LADING, QUALITY CERTIFICATE SHOULD BE
SENT TO THE APPLICANT BY EMAIL (FANCYLEATHER79(AT)GMAIL.COM)
WITHIN 10 DAYS FROM THE DATE OF BILL OF LADING AND THE
RELATED COURIER RECEIPT MUST ACCOMPANY ORIGINAL DOCUMENTS.
- 08.GOODS VALUE AND FREIGHT CHARGE MUST BE MENTIONED IN COMMERCIAL
INVOICE SEPARATELY.
- 09.QUALITY: SOLID CONTENTS OF EVERY CHEMICALS SHOULD BE AS PER
DECLARATION/LITERATURE AND LITERATURE SHOULD BE IN
INTERNATIONAL STANDARD AND CERTIFICATE TO BE ISSUED BY THE
BENEFICIARY AFTER SHIPMENT AND THIS CERTIFICATE TO BE SENT
WITH THE ORIGINAL DOCS.
- 10.DOCUMENTS WITH DISCREPANCY MUST NOT BE NEGOTIATED.IF THE SAME
DOCS ACCEPTED BY ISSUING BANK USD 100.00 WILL BE DEDUCTED AS
DISCREPANCY CHARGE AT THE TIME OF PAYMENT.
- 11.THIS RAW MATERIALS WILL BE IMPORTED THROUGH BONDED WAREHOUSE,
WILL BE UTILIZED UNDER BOND LICENSE AND MUST BE MENTIONED THE
INVOICE,PACKING LIST,B/L AND CERTIFICATE OF ORIGIN.
- 12.CERTIFICATE ISSUED BY SHIPPING COMPANY,CARRIER,MASTER OR THEIR
AUTHORIZED AGENT AND SHIPMENT BY ISRAELI VESSEL OR CALLING AT
ANY PORT OF THIS COUNTRY IS PROHIBITED.
13. NEGOTIATING BANK CERTIFIED ON THEIR FORWARDING SCHEDULE
STATING THAT BENEFICIARY HAS PAID ALL THE ADVISING CHARGES.
14. PLS MENTION 14DAYS FREE TIME AT DETENTION ONLY FOR BL.
- 15.ALL CORRESPONDENCE BANK FORWARDING SCHEDULE AND DOCUMENTS
SHOULD BE IN ENGLISH.

F71D: Charges

ALL BANK CHARGES OUTSIDE BANGLADESH
ARE ON BENEFICIARY'S ACCOUNT.

F48: Period for Presentation in Days

Days: 21
F49: Confirmation Instructions
WITHOUT

F78: Instructions to the Paying/Accepting/Negotiating Bank
ORIGINAL IMPORT DOCUMENTS AS PER LC TERMS MUST BE REACHED AT OUR
BANK COUNTER BY COURIER AND TWO COPIES IN DUPLICATE BY SUBSEQUENT
MAIL TO OUR MAILING ADDRESS AGRANI BANK LTD, RAMNA CORPORATE
BRANCH, 18 BANGHUBANDHU AVENUE DHAKA-1000 BANGLADESH.
UPON RECEIPT OF DOCUMENTS COMPLYING CREDIT TERMS, WE SHALL
EFFECT PAYMENT AS PER YOUR INSTRUCTION.

F72Z: Sender to Receiver Information
THIS LETTER OF CREDIT IS SUBJECT
TO UCPDC (2007 REVISION) ICC
PUBLICATION 600.
PLS ACKNOWLEDGE RECEIPT AND ADVISE
THE CREDIT TO THE BENEFICIARY.

Message Trailer

{CHK:320CBBB05F27}
PKI Signature: MAC-Equivalent

Interventions

formatted_interventions

Category : Network Report
Creation Time : 22/11/22 15:52:22
Application : SWIFT Interface
Operator : SYSTEM
Text
{1:F21AGBKBDHA0055233643003}{4:{177:2211221552}{451:0}}

End of Message

Chemical Safety Data Sheet

Section 1 IDENTIFICATION

GHS Product identifier: Formic acid 85%.**Other means of identification:** Methanoic acid.**Recommended use of the chemical and restrictions on use:** /**Supplier's details:** LIAOCHENG LUXI FORMIC ACID CHEMICAL CO., LTD.**Emergency phone number:** /

Section 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable Liquids Category 3, Acute Toxicity (Oral) Category 4, Acute Toxicity (Inhalation) Category 4, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure Category 1 (central nervous system, respiratory system, blood system, kidney), Specific Target Organ Toxicity - Repeated Exposure Category 2 (respiratory system), Hazardous to the Aquatic Environment - Acute Hazard Category 3.

GHS Label elements, including precautionary statements:**Signal word:** Danger.**Hazard statement(s):** Flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. Causes damage to organs (central nervous system, respiratory system, blood system, kidney). May cause damage to organs through prolonged or repeated exposure (respiratory system). Harmful to aquatic life.**Precautionary statement(s):****Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response:

In case of fire: Use foam, dry chemical powder, carbon dioxide, water spray to extinguish. IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor/...Specific treatment (see below). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/...IF exposed or concerned: Call a POISON CENTER/doctor/... Specific treatment (see below).

Storage:

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification: /

Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Formic acid	64-18-6	86%
Water, A small amount of impurity	7732-18-5	Make up 100%

SECTION 4 FIRST AID MEASURES

Description of necessary first aid measures

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. Do NOT induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed: /

Indication of immediate medical attention and special treatment needed: For acute or short term repeated exposures to strong acids: Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially. Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling. INGESTION: Immediate dilution (milk or water) within 30 minutes post ingestion is recommended. DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury. Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. SKIN: Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping. EYE: Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjunctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.

SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Foam. Dry chemical powder. Carbon dioxide. Water spray or fog - Large fires only.

Special hazards arising from the chemical: Flammable. Moderate fire and explosion hazard when exposed to heat or flame. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit corrosive fumes.

Special protective actions for fire-fighters: Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all ignition sources.

Clean up all spills immediately. Avoid contact with skin and eyes. Control personal contact with the substance, by using protective equipment.

Environmental precautions: Stop leak if safe to do so.

Methods and materials for containment and cleaning up: Minor Spills: Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Major Spills: Contain or absorb spill with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. **WARNING:** To avoid violent reaction, ALWAYS add material to water and NEVER water to material. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers.

Conditions for safe storage, including any incompatibilities: Store in approved flammable liquid storage area. No smoking, naked lights/ignition sources. Keep containers securely sealed. Store away from incompatible materials in a cool, dry, well-ventilated area. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

Source	Ingredient	Material name	TWA	STEL	Peak
China Occupational Exposure Limits for Hazardous Agents in the Workplace	formic acid	Formic acid	10 mg/m ³	20 mg/m ³	Not Available

Appropriate engineering controls: For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.

Personal protective equipment

Eye/face protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection: Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

Respiratory protection: Type AB-P Filter of sufficient capacity.

Thermal hazards: /

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless transparent liquid.
Odour	/
Odour Threshold	/

pH	/
Melting point/freezing point	/
Initial boiling point and boiling range	>35.0°C.
Flash point	/
Evaporation rate	/
Flammability (solid, gas)	/
Upper/lower flammability or explosive limits	/
Vapour pressure	/
Vapour density (Air = 1)	/
Relative density (Water = 1)	/
Water solubility	Miscible.
Partition coefficient: noctanol/water	/
Autoignition temperature	/
Decomposition temperature	/
Viscosity	/

SECTION 10 STABILITY AND REACTIVITY

Reactivity: /

Chemical stability: Product is considered stable.

Possibility of hazardous reactions: Segregate from alkalis, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates. Avoid strong bases. Contact with alkaline material liberates heat

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Bases, oxidising agents and chemicals readily decomposed by acids.

Hazardous decomposition products: Carbon monoxide (CO), carbon dioxide (CO₂), other pyrolysis products typical of burning organic material.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure: Inhaled, Ingestion, skin, eyes.

Symptoms related to the physical, chemical and toxicological characteristics: /

Acute health effects

Acidic corrosives produce respiratory tract irritation with coughing, choking and mucous membrane damage. Ingestion of acidic corrosives may produce circumoral burns with a distinct discolouration of the mucous membranes of the mouth, throat and oesophagus. Skin contact with acidic corrosives may result in pain and burns. Direct eye contact with acid corrosives may produce pain, lachrymation, photophobia and burns.

Chronic health effects: Repeated or prolonged exposure to acids may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis.

Numerical measures of toxicity (such as acute toxicity estimates):

dermal (rat) LD50: >2000 mg/kg

Inhalation (rat) LC50: 7.4 mg/l/4h

Oral (rat) LD50: =730 mg/kg

SECTION 12 ECOLOGICAL INFORMATION**Toxicity:**

ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE
LC50	96	Fish	1-720mg/L
EC50	48	Crustacea	32.19mg/L
EC50	72	Algae or other aquatic plants	>1-mg/L
NOEC	72	Algae or other aquatic plants	>=1-mg/L

Persistence and degradability: Water/Soil: LOW (Half-life = 14 days). Air: LOW (Half-life = 55.46 days). (formic acid)

Bioaccumulative potential: LOW (BCF = 0.22) (formic acid)

Mobility in soil: HIGH (KOC = 1) (formic acid)

Other adverse effects: /

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal methods: Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus. Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 TRANSPORT INFORMATION

UN number: 1779.

UN proper shipping name: FORMIC ACID with more than 85% acid by mass.

Transport hazard class(es): 8+3.

Packaging group: II.

Environmental hazards: /

Special precautions for user: /

SECTION 15 REGULATORY INFORMATION

Regulations: This safety data sheet is in compliance with the following national standards: GB/T 16483-2008, GB 13690-2009, GB 18218-2018, GB 15258-2009, GB 6944-2012, GB 190-2009, GB/T 191-2008, GB 12268-2012, GB/T 15098-2008, GBZ 2.1-2007, GBZ 2.2-2007 as well as the following regulations: Railway Dangerous Goods Transport Administrative Regulation, Dangerous Chemicals Safety Administrative Regulation.

SECTION 16 OTHER INFORMATION

References	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
Form Date	26-Mar-2020

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information (such as boiling point does not exist for the solid) in the table with "/" logo.

TECHNICAL DATA SHEET

General Information		
Name	Formic Acid	
CAS No.	64-18-6	
HS Code	29151100	
Chemical Formula	CH ₂ O ₂	
Molecular weight	46.03	
Chemical Structure	$\begin{array}{c} \text{O} \\ \\ \text{H}-\text{C}-\text{OH} \end{array}$	
Specification		
Items	Value	Test Methods
Appearance	Clear Liquid Without Suspended Matter	VISUAL METHOD
Purity	85.00% min	CHEMICAL TITRATION
Chroma (Pt-Co)	10 max	VISUAL CLORIMETRY
Chloride (CL)	0.002% max	ION CHROMATOGRAPHY, IC
Sulphate (SO ₄)	0.001% max	SPECTROPHOTOMETRY
Iron (Fe)	0.0001% max	1,10-MRLIN SPECTROPHOTOMETRY
Evaporation Residue	0.006 % max	WEIGHTLESSNESS WEIGHING METHOD
Packaging		
25kg, 35kg, 250kg, 1200kg plastic drum or ISO tank		
Transport		
UN.No.	1779	
Hazard Class	8+3	
Application		
Formic acid is one of basic organic chemical raw materials, which is extensively used in pesticide leather, dyestuff, medicine and rubber industries. Formic acid can be directly used in textile processing, tanning, dry goods, silage, and can be used as metal conditioner, rubber ingredients and industrial solvent.		
Storage and Handling		
Store in cool, dry and ventilated places away from heat, sunlight, rain, ammonia, sulfuric acid and nitric acid. Wear body-covering clothes and boots, safety glasses, protective Gloves and a dust respirator.		
Firefighting Measures		
Suitable extinguishing media: Use foam, chemical powder or water spray. Special hazards arising from the chemical: Liquid and vapor are flammable. May explode and burn in high temperature and fire and release toxic fumes. Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers. In case of fire in the surroundings, use appropriate extinguishing media.		

聊城鲁西甲酸化工有限公司
LIAOCHENG LUXI FORMIC ACID CHEMICAL CO., LTD.

LIAOCHENG LUXI FORMIC ACID CHEMICAL CO., LID

Luxi Chemical Industry Park, Liaocheng Development Area, Shandong Province, China.

Web: <http://en.luxichemical.com>

Tel: 0086-635-3481038

E-mail: info@lxhg.com

