

SAFETY DATA SHEET

CYLCO 40% FORMIC ACID SOLUTION PAK

Version: USA/GHS

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

TRADE NAME: CYLCO 40% FORMIC ACID SOLUTION PAK

APPLICATION OF THE SUBSTANCE/MIXTURE – PAPER TESTING

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: GHS FORMAT

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2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE/MIXTURE:



GHS09 H402: HARMFUL TO AQUATIC LIFE
GHS05 – CORROSIVE TO SKIN AND METAL
GHS07 - H290: CORROSIVE TO METAL AND SKIN
H302: HARMFUL IF SWALLOWED
H319: CAUSES SERIOUS EYE IRRITATION
H332: HARMFUL IF INHALED

GHS06 – TOXIC
GHS08 – WARNING SYSTEMIC HEALTH HAZARDS

CORROSIVE

EYE IRRITANT – 2
SKIN SENSITIVITY - 2

H319 CAUSES SERIOUS EYE IRRITATION
H290 CORROSIVE TO SKIN AND METAL

GHS CLASSIFICATION
SKIN CORROSION CATEGORY 3
SERIOUS EYE DAMAGE CATEGORY 3
AQUATIC ENVIRONMENT CATEGORY 3

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LABEL ELEMENTS

LABELLING ACCORDING TO REGULATION (EC) No 1272/2008

This product is classified and labeled according to the CLP regulation.

Hazard Pictograms



SIGNAL WORD DANGER

HAZARDOUS STATEMENTS

CAUSES SKIN IRRITATION
CAUSES SERIOUS EYE IRRITATION
HARMFUL TO AQUATIC LIFE

H290: CORROSIVE TO METAL AND SKIN
H302: HARMFUL IF SWALLOWED
H305: MAY BE HARMFUL IF SWALLOWED AND ENTERS AIRWAYS
H311: TOXIC IN CONTACT WITH SKIN
H312: HARMFUL IN CONTACT WITH SKIN
H319: CAUSES SERIOUS EYE IRRITATION
H332: HARMFUL IF INHALED
H402: HARMFUL TO AQUATIC LIFE
EUH070: TOXIC BY EYE CONTACT
EUH401: TO AVOID RISKS TO HUMAN HEALTH AND ENVIRONMENT, COMPLY WITH INSTRUCTIONS FOR USE.

PRECAUTIONARY STATEMENTS

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY
P262: DO NOT GET IN EYES, ON SKIN OR ON CLOTHING
P264: WASH ANY EXPOSED AREAS THOROUGHLY AFTER HANDLING
P280: WEAR PROTECTIVE GLOVES/CLOTHING/EYE PROTECTION/FACE PROTECTION
P281: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED
P284: WEAR RESPIRATORY PROTECTION
P301+ P310: IF SWALLOWED: SEEK MEDICAL ASSISTANCE IMMEDIATELY
P302 + P352: IF ON SKIN: WASH THOROUGHLY WITH SOAP FOR 15 MINUTES. If skin irritation occurs, seek medical attention.
P304 + P341: IF INHALED: GET VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING STOPPED. GET PROMPT MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF UNCONSCIOUS.
P305 + 351 + P338: IF IN EYES: IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. SEEK PROMPT MEDICAL ATTENTION IF REDNESS OR IRRITATION OCCURS.
P404 + P233: STORE IN A WELL VENTILATED PLACE IN A TIGHTLY CLOSED CONTAINER
P501: DISPOSE OF CONTENTS/CONTAINER TO A RCRA LICENSED FACILITY. CONTAINERS WITH LESS THAN AN INCH OF RESIDUE MAY BE LANDFILLED AT A LICENSED FACILITY. RECOMMEND CRUSHING OR OTHER MEANS TO PREVENT REUSE.

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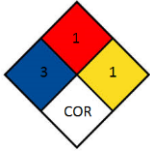
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CLASSIFICATION SYSTEM:

NFPA RATINGS (SCALE 0 – 4)

HMIS RATINGS (SCALE 0 – 4)



HEALTH = 3
FLAMABILITY = 1
REACTIVITY = 1

HEALTH	3
FIRE	1
REACTIVITY	1

OTHER HAZARDS

RESULTS OF PBT AND vPvB ASSESSMENT

PBT: NOT APPLICABLE

vPvB: NOT APPLICABLE

3 COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL CHARACTERIZATION: MIXTURE – PROPRIETARY

CHEMICAL FAMILY: ORGANIC DYE

CAS NUMBER	DESCRIPTION	%
CAS: 64-18-6 EINECS: 200-579-1	FORMIC ACID	38 - 42
CAS: 7732-18-5 EINECS: 231-791-2	WATER	58 - 62

SVHC

THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCE OF VERY HIGH CONCERN (SVHC) ON THE EUROPEAN CHEMICALS AGENCY (ECHA) CANDIDATE LIST

4 FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

IF INHALED: GET VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR OXYGEN IF BREATHING STOPPED. GET PROMPT MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF UNCONSCIOUS.

IF ON SKIN: WASH THOROUGHLY WITH SOAP FOR 15 MINUTES. If skin irritation occurs, seek medical attention.

IF IN EYES: IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. SEEK PROMPT MEDICAL ATTENTION IF REDNESS OR IRRITATION OCCURS.

IF SWALLOWED: SEEK MEDICAL ASSISTANCE IMMEDIATELY

INFORMATION FOR DOCTOR: MOST IMPORTANT SYMPTOMS AND SIDE EFFECTS, BOTH IRRITATING. NO FURTHER RELEVANT INFORMATION AVAILABLE. INDICATION OF AN IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED. NO FURTHER RELEVANT INFORMATION AVAILABLE.

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HEALTH EFFECTS OF EXPOSURE:

THE EFFECTS OF OVEREXPOSURE: DIRECT CONTACT WITH THIS MATERIAL MAY CAUSE SEVERE EYE AND SKIN IRRITATION. PERMANENT EYE INJURY MAY RESULT. INGESTION MAY RESULT IN NAUSEA AND DAMAGE TO THE GASTROINTESTINAL TRACT. INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

ALL

HAZARDOUS COMBUSTION PRODUCTS:

CARBON OXIDES
NITROGEN OXIDES
SULFUR OXIDES
ALKALINE CONDITIONS

SPECIAL FIRE FIGHTING PROCEDURE:

FIREFIGHTERS SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND TURNOUT GEAR.

UNUSUAL FIRE AND EXPLOSION HAZARDS: ADEQUATE VENTILATION AND CLEANUP.

6 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

WEAR PROTECTIVE EQUIPMENT
ENSURE ADEQUATE VENTILATION

ENVIRONMENTAL PRECAUTIONS:

DO NOT ALLOW TO ENTER SEWERS, SURFACE OR GROUND WATER

METHODS AND MATERIAL FOR CONTAINMENT AND CLEAN UP:

CONTAIN SPILL. SPILLS SHOULD BE CONTAINED AND SOLIDIFIED, AND PLACED IN SUITABLE CONTAINERS FOR DISPOSAL IN AN RCRA LICENSED FACILITY. THIS MATERIAL IS RCRA HAZARDOUS DUE TO ITS PROPERTIES. CONTAINER DISPOSAL- EMPTY CONTAINERS WITH LESS THAN 1 INCH OF RESIDUE MAY BE LANDFILLED AT A LICENSED RCRA FACILITY. RECOMMEND CRUSHING OR OTHER MEANS TO PREVENT UNAUTHORIZED REUSE.

HAZARDOUS SUBSTANCE SUPER FUND: YES

REFERENCE TO OTHER SECTIONS:

SEE SECTION 7 FOR INFORMATION ON SAFE HANDLING
SEE SECTION 8 FOR INFORMATION ON PERSONAL PROTECTION EQUIPMENT
SEE SECTION 13 FOR DISPOSAL INFORMATION

7 HANDLING AND STORAGE

HANDLING:

PRECAUTIONS FOR SAFE HANDLING:

AVOID GETTING ON SKIN OR IN EYES WHEN HANDLING PRODUCT. WEAR PROTECTIVE EQUIPMENT

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE:

STORE IN COOL DRY PLACE
KEEP CONTAINERS CLOSED TIGHTLY
ENSURE GOOD VENTILATION IN WORKPLACE
AVOID OXIDES AND ALKALINE CONDITIONS

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

PROVIDE EXHAUST VENTILATION. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE AVAILABLE AND CLOSE TO THE WORKSTATION.

PERSONAL PROTECTIVE EQUIPMENT:

USUAL PRECAUTIONARY MEASURES FOR HANDLING CHEMICALS SHOULD BE FOLLOWED
WASH HANDS AFTER HANDLING

REMOVE ANY SOILED OR CONTAMINATED CLOTHING

AVOID CONTACT WITH EYES AND SKIN

BREATHING EQUIPMENT: NIOSH/MSHA APPROVED ORGANIC VAPOR MIST RESPIRATOR/MASK

HAND PROTECTION: BUTYL RUBBER, NEOPRENE OR PVC GLOVES

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS AND FACE SHIELD

ADVICE ON SYSTEM DESIGN: LOCAL VENTILATION RECOMMENDED -
MECHANICAL VENTILATION MAY BE USED

CONTROL PARAMETERS: COMPONENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE

FORMIC ACID – 64-18-6

IDLH: FORMIC ACID:	50 ppm
NIOSH REL:	TWA 10ppm (25mg/m ³)
OSHA PEL:	TWA 10 ppm (25mg/m ³)

9 PHYSICAL AND CHEMICAL PROPERTIES

FORM:	AQUEOUS SOLUTION
COLOR:	CLEAR
ODOR:	PUNGENT
pH:	< 2
FLASHPOINT:	NOT DETERMINED
SOLUBILITY IN WATER	MISCIBLE
DENSITY:	1.09
MELTING POINT:	NOT DETERMINED
VISCOSITY:	NOT DETERMINED

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10 STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR. CONDITIONS TO AVOID: NONE KNOWN.

CONDITIONS TO AVOID: HEAT, SPARKS, SULFURIC ACID, HYDROGEN, CAUSTICS

11 TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

ACUTE TOXICITY: IRRITANT TO SKIN AND MUCOUS MEMBRANES
CORROSIVE MATERIAL DO NOT GET ON SKIN OR IN EYES

12 ECOLOGICAL INFORMATION

DO NOT ALLOW UNDILUTED PRODUCT OR LARGE AMOUNTS TO REACH GROUND WATER, SEWAGE SYSTEM OR ANY BODY OF WATER.

AQUATIC TOXICITY: NO FURTHER RELEVANT INFORMATION

13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL INFORMATION:

SMALL QUANTITIES MAY BE TREATED IN AEROBIC WASTEWATER TREATMENT SYSTEMS. LARGER QUANTITIES MAY BE INCINERATED OR LANDFILLED AFTER SOLIDIFIED IN AN RCRA LICENSED FACILITY.

RCRA HAZARDOUS WASTE:

YES - IF IT BECOMES A WASTE AS SOLD.

RCRA#: D002 FOLLOW ALL LOCAL, STATE AND FEDERAL REGULATIONS.

14 TRANSPORT INFORMATION

UN-NUMBER	UN3412
DOT, IATA, IMDG	
UN PROPER SHIPPING NAME	UN3412, CORROSIVE LIQUID, ACIDIC ORGANIC N.O.S., (FORMIC ACID), 8, II, ERG 153
TRANSPORTATION HAZARD	40%FORMIC ACID SOLUTION



CLASS 8 CORROSIVE

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15 REGULATORY INFORMATION

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

SARA (SECTION 311/312)

REACTIVE HAZARD:	YES
PRESSURE HAZARD:	NO
FIRE HAZARD:	NO
IMMEDIATE/ACUTE:	YES
DELAYED/CHRONIC:	YES

SARA 313 INFORMATION:

SARA TITLE III. THE COMPONENTS OF THIS PRODUCT ARE REGULATED BY EPA AS SHOWN BELOW:

COMPONENT	CAS. NO:	%	TPQ	RQ	S303	RCRA	TASCA 12B
FORMIC Acid	64-18-6	38 - 42	No	5000	No	None	No

TSCA STATUS:

ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON TSCA INVENTORY OR EXEMPT.

CALIFORNIA PROP 65:

NONE OF THE INGREDIENTS LISTED AS KNOWN TO CAUSE CANCER OR REPRODUCTIVE TOXICITY

CARCINOGENIC CATEGORIES:

EPA NONE OF THE INGREDIENTS
IARC NONE OF THE INGREDIENTS
NTP NONE OF THE INGREDIENTS
NIOSH NONE OF THE INGREDIENTS
OSHA NONE OF THE INGREDIENTS

CLEAN WATER ACT: DO NOT ALLOW TO ENTER SEWERS, SURFACE OR GROUND WATER

FDA: THIS PRODUCT IS NOT REGISTERED WITH THE FDA.

CANADA: LABELLING ACCORDING TO REGULATION EC No 1272/2008
THIS PRODUCT IS CLASSIFIED AND LABELED ACCORDING TO CLP REGULATION



GHS05



GHS07



GHS09



GHS06



GHS08

SIGNAL WORD – DANGER

HAZARD DETERMINING COMPONENTS OF LABELLING:
FORMIC ACID

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16 OTHER INFORMATION

OTHER PRECAUTIONS:
NONE KNOWN

LABEL INFORMATION:
ATTENTION!

IN ACCORDANCE WITH GOOD PRACTICES OF PERSONAL CLEANLINESS AND HYGIENE, HANDLE WITH DUE CARE AND AVOID UNNECESSARY CONTACT WITH THIS PRODUCT.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.