1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: Formic Acid 85
PRODUCT NAME: **Oil Pro CII-1**
RECOMMENDED USE: Corrosion Inhibitor Intermediate

Manufacturer:
ARC Products INC
4010 La Reunion Parkway Suite 160
Dallas, TX 75212
(214) 638-2468

24-HOUR EMERGENCY TELEPHONE: (800)424-9300 (Chemtrec, 24 hours)

2. HAZARDS IDENTIFICATION

CLASSIFICATION:
Flammable liquids – Category 4
Acute toxicity (oral) – Category 4
Aspiration hazard – Category 3
Skin corrosion/irritation – Category 1B
Serious eye damage/eye irritation – Category 1

SIGNAL WORD: Warning

HAZARD STATEMENTS:
Flammable liquid and vapor.
Harmful if swallowed and enters airway.
Causes skin irritation.
Causes serious eye irritation.

SYMBOLS:



PRECAUTIONARY STATEMENTS:
Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilation/lighting/handling equipment. Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and arms thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Get emergency medical help immediately. Specific treatment (see Section 4 on this label). Rinse mouth.
IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment (see Section 4 on this label).

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get emergency medical help.
IN CASE OF FIRE: Use dry chemical powder, carbon dioxide, water spray or fog to extinguish.
If exposed or concerned: Get emergency medical help immediately.
Store in well-ventilated place. Keep cool. Store locked up.
Avoid release to the environment. Collect spillage.
Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:	CAS No.:	WEIGHT %:
Formic acid	64-18-6	80-90

4. FIRST-AID MEASURES

Inhalation: Move person to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, give oxygen. Get emergency medical help.

Skin Contact: Immediately remove all contaminated clothing. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. Obtain emergency medical help if skin irritation persists.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain emergency medical help if eye irritation persists.

Ingestion: Do NOT induce vomiting as risk of damage to lungs exceeds poisoning risk. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain emergency medical help. Gastric lavage recommended.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause nasal and respiratory tract irritation. Difficulty in breathing. May cause central nervous system depression: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Skin: Causes moderate skin irritation including possible redness, itching, inflammation and dermatitis.

Eyes: Causes serious eye irritation, redness, tearing, blurred vision and conjunctivitis.

Ingestion: May be harmful if swallowed. This product may cause nausea, vomiting, diarrhea and restlessness. Do NOT induce vomiting. Aspiration into the lungs can cause sever chemical pneumonitis and pulmonary edema/hemorrhage. May cause gastrointestinal disturbance including irritation, depression, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed: No further information.

5. FIREFIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Use water spray, water fog or alcohol-resistant foam.

Unsuitable Extinguishing Media: Not applicable.

Specific Hazards arising from the chemical:

Releases vapors at normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined.

Flammable vapors may be heavier than air and may travel long distances along the ground before igniting or flashing back to vapor source.

Diluting with water may not suffice to raise flash point above ambient temperature.
Decomposition products depend upon temperature, air supply and the presence of other materials. When heated to decomposition, this product may burn releasing combustion products that may be toxic, including carbon oxides (CO, CO2), nitrogen oxides (NO, NO2) and smoke.

Advice for Fire-Fighters:

As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. Containers can build up pressure if exposed to heat. Use water spray to cool containers exposed to fire. Wash contaminated clothing thoroughly with water before reuse. Fight fire from safe distance or protected location.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Eliminate all ignition sources. All equipment used when handling this material must be grounded, explosion proof and non-sparking. Wear protective equipment and keep unprotected personnel away. Use personal protective equipment (PPE) specified in Section 8. Ensure adequate ventilation. Do not breathe vapors, mist or spray. Prevent further leak or spill if safe to do so. Avoid all contact with skin, eyes and clothing.

Environmental Precautions:

Prevent spilled material from entering sewers, storm drains and public waters. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Methods and Materials for Containment and Cleaning Up:

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop spill/release if it can be done safely. Clean up large spills by vacuum. Small spills can be swept up or absorbed with inert material and placed into a suitable disposal container. Dispose of waste in accordance with local, state and federal regulations. See section 13 for further disposal information.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Ground lines, containers and other equipment during product transfer to reduce the possibility of a static induced spark. Use non-sparking tools and explosion proof equipment. Avoid all contact with skin, eyes and clothing. Do not breathe vapors, mist or spray. Use only with adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Open and handle container with care. Do not eat, drink or smoke while handling.

Conditions for Safe Storage, Including any Incompatibilities:

Keep containers tightly closed and properly labeled. Store in cool, dry, well-ventilated area away from heat, sources of ignition and incompatible substances. Keep container tightly closed when not in use. Keep in original container. Store containers in upright position.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Formic acid:	OSHA PEL	TWA 5 ppm, 9.4 mg/m^3
	ACGIH TLV	TWA 5 ppm, 10 mg/m^3
		STEL TWA 10 ppm, 19 mg/m^3

Appropriate Engineering Controls:

Use adequate general and local exhaust ventilation to keep airborne concentrations low. Emergency eye wash and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment:

Eye/Face Protection – Wear chemical safety glasses with side shields or safety googles and a face shield.
Hand Protection – Wear chemical resistant gloves.
Skin Protection – Wear appropriate chemical resistant clothing.
Respiratory Protection – Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mists are expected to exceed exposure limits.

Other Information:

Do not eat, drink or smoke when using this product. Do not get in your eyes, on your skin, or on your clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. Wash all contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Clear colorless to yellow l
Odor:	Not available
pH:	2.2 (1% in H20)
Boiling Point:	>100°C (212°F)
Freezing/Melting Point:	Not available
Flash Point:	26.7°C (80°F) (Pensky-Martens closed cup)
Evaporation Rate:	Not available
Flammability:	Not available
Explosive Limits:	Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Relative Density:	1.19 @ 77°F
Solubility:	completely mixiable in water
Volatility:	Not available
Auto-Ignition Temperature:	Not available
Decomposition Temperature:	Not available
Partition Coefficient:	Not available

10. STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Material is stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur.
Conditions to Avoid: Keep away from hear/sparks/open flames/hot surfaces. Avoid contact with incompatible materials.
Incompatible Materials: Amines, bases and metals.
Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply and the presence of other materials. When heated to decomposition, this product may burn releasing combustion products that may be toxic, including oxides of carbon oxides (CO, CO2), nitrogen oxides and smoke.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation: May cause nasal and respiratory tract irritation. Difficulty in breathing. May cause central nervous system depression: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Ingestion: May be harmful if swallowed. This product may cause nausea, vomiting, diarrhea and restlessness. May cause gastrointestinal disturbance including irritation, depression, vomiting and diarrhea.

Skin Contact: Causes moderate skin irritation including possible redness, itching, inflammation and dermatitis.

Eye Contact: Causes serious eye irritation, redness, tearing, blurred vision and conjunctivitis.

Acute Toxicity

Acute inhalation	**LC_{50}:** 7.4 mg/l (rat)
Oral	**LD_{50}:** 730 mg/kg (rat)

Respiratory Sensitization: No data available
Skin Sensitization: No data available
Carcinogenicity: No components are considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive Toxicity: None known
Germ Cell Mutagenicity: None known
Specific Target Organ Toxicity – Single Exposure: No additional data available
Specific Target Organ Toxicity – Repeated Exposure: No data available
Aspiration Hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not classified
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Empty containers retain product residue which may exhibit hazards of material. Do not use for other purposes. Return containers to reclamation centers for proper recycling or disposal.

14. TRANSPORTATION INFORMATION

In accordance with ICAO/IATA/DOT/TDG

UN/NA No.:	UN1779
DOT PROPER SHIPPING NAME:	Formic acid
PRIMARY HAZARD LABEL:	Class 8 (3)
PACKING GROUP (DOT):	II

15. REGULATORY INFORMATION

OSHA: This product is listed as a hazardous material under the criteria of Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200. We request that you make all information in the Safety Data Sheet available to your employees.

TSCA: All components are on the TSCA Inventory.

16. OTHER INFORMATION

CURRENT ISSUE DATE: Oct 29, 2026

This document is prepared to comply with GHS standards and SDS requirements of OSHA Hazard Communication Standard 29 CFR 1910.1200

ARC Products INC believes the information contained in this material safety data sheet is accurate based on the information supplied by reputable suppliers of our raw materials. We cannot make any assertions as to its reliability or completeness; therefore, the user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product. Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product. No warranty, either expressed or implied, or liability of any nature with respect to this product or to the data herein is made or incurred hereunder.