# SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

# SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Product name : HERBAL ACID Product code : H70-HA.

**1.2. Relevant identified uses of the substance or mixture and uses advised against** This product is only for industrial use, as a supplement for animal feed.

# 1.3. Details of the supplier of the safety data sheet

Registered company name : PROVIT Sp. z o. o.\_. Address : Szpitalna 44A.99-300.Kutno.Polska. Telephone : +48 243558900. Fax : . provit.biuro@adm.com www.provit.pl

## 1.4. Emergency telephone number : + 48 58 349 28 31.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

# **SECTION 2 : HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

Skin corrosion, Category 1B (Skin Corr. 1B, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site. This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

# 2.2. Label elements

## In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



• • • • • • • • • • • • • • • • • • •		
GHS05		
Signal Word :		
DANGER		
Product identifiers : EC 200-018-0 015-011-00-6 607-001-00-0 607-002-00-6	LACTIC ACID PHOSPHORIC ACID FORMIC ACID ACETIC ACID	
Hazard statements :		
H314		Causes severe skin burns and eye damage.
Precautionary statement	ts - Prevention :	
P260		Do not breathe dust/fume/gas/mist/vapours/spray.
Precautionary statement	ts - Response :	
P301 + P330 + P331		IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
Precautionary statements - Storage :	
P405	Store locked up.
<b>11</b> O(1) + 1 + 1 + 1	

#### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances> = 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

# SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

# 3.2. Mixtures

Composition : Identification	Classification (EC) 1272/2008	Note	%
NDEX: I50 21 5	GHS05		$25 \le x \% \le 50$
CAS: 50-21-5	Dgr		
EC: 200-018-0	Skin Corr. 1C, H314		
	Eye Dam. 1, H318		
LACTIC ACID	<b>,</b>		
NDEX: 015-011-00-6	GHS05	В	$10 \le x \% \le 25$
CAS: 7664-38-2	Dgr	[1]	
EC: 231-633-2	Skin Corr. 1B, H314		
PHOSPHORIC ACID			
INDEX: 607-001-00-0	GHS05	В	10 <= x % < 25
CAS: 64-18-6	Dgr	[1]	
EC: 200-579-1	Skin Corr. 1A, H314		
FORMIC ACID			
INDEX: 607-002-00-6	GHS02, GHS05	В	2.5 <= x % < 10
CAS: 64-19-7	Dgr	[1]	
EC: 200-580-7	Flam. Liq. 3, H226		
	Skin Corr. 1A, H314		
ACETIC ACID			
NDEX: 607-750-00-3	GHS07	[1]	$0 \le x \% \le 2.5$
CAS: 77-92-9	Wng		
EC: 201-069-1	Eye Irrit. 2, H319		
	STOT SE 3, H335		
CITRIC ACID			
NDEX: I6915_15_7	GHS07		$0 \le x \% \le 2.5$
CAS: 6915-15-7	Wng		
EC: 230-022-8	Eye Irrit. 2, H319		
L-MALIC ACID			
Specific concentration limits:			
Identification	Specific concentration limits	ATE	
NDEX: 150 21 5	1	$aral \cdot ATE = 3540 r$	na/ka BW

Identification	Specific concentration limits	AIE	
INDEX: I50_21_5		oral: ATE = $3540 \text{ mg/kg BW}$	
CAS: 50-21-5			
EC: 200-018-0			
LACTIC ACID			

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INDEX: 015-011-00-6	Skin Corr. 1B: H314 C>= 25%	
CAS: 7664-38-2	Skin Irrit. 2: H315 10% <= C < 25%	
EC: 231-633-2	Eye Dam. 1: H318 C>= 25%	
	Eye Irrit. 2: H319 10% <= C < 25%	
PHOSPHORIC ACID		
INDEX: 607-001-00-0	Skin Corr. 1A: H314 C>= 90%	
CAS: 64-18-6	Skin Corr. 1B: H314 10% <= C < 90%	
EC: 200-579-1	Skin Irrit. 2: H315 2% <= C < 10%	
	Eye Dam. 1: H318 C>= 10%	
FORMIC ACID	Eye Irrit. 2: H319 2% <= C < 10%	
INDEX: 607-002-00-6	Skin Corr. 1A: H314 C>= 90%	
CAS: 64-19-7	Skin Corr. 1B: H314 25% <= C < 90%	
EC: 200-580-7	Skin Irrit. 2: H315 10% <= C < 25%	
	Eye Dam. 1: H318 C>= 25%	
ACETIC ACID	Eye Irrit. 2: H319 10% <= C < 25%	
INDEX: I6915 15 7		oral: ATE = 3500 mg/kg BW
CAS: 6915-15-7		
EC: 230-022-8		

## HERBAL ACID - H70-HA

#### L-MALIC ACID

# Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

# **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

# 4.1. description of first aid measures

#### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

## In the event of splashes or contact with skin :

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

# In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

# 4.2. Most important symptoms and effects, both acute and delayed

#### No data available.

## 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

# **SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

# 5.1. Extinguishing media

# Suitable methods of extinction

In the event of a fire, use :

Foam, powder, carbon dioxide, water in spray

#### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

# 5.3. Advice for firefighters

No data available.

# SECTION 6 : ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

### For non first aid worker

Avoid any contact with the skin and eyes.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

## **6.2.** Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

# 6.3. Methods and material for containment and cleaning up

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

# 6.4. Reference to other sections

No data available.

# **SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

#### Fire prevention :

Prevent access by unauthorised personnel.

# Recommended equipment and procedures :

#### For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

# Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

#### 7.2. Conditions for safe storage, including any incompatibilities

No data available.

## Packaging

Always keep in packaging made of an identical material to the original.

#### 7.3. Specific end use(s)

No data available.

# **SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1. Control parameters

#### **Occupational exposure limits :**

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3:	VLE-ppm :	Notes :	]	
7664-38-2	1	-	2	-	-		
64-18-6	9	5	-	-	-		
64-19-7	25	10	50	20	-		
- ACGIH TLV (Am	erican Conferen	ice of Governme	ental Industrial	Hygienists, Thr	eshold Limit Va	lues, 2010) :	
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :		
7664-38-2	1 mg/m3	3 mg/m3				-	
64-18-6	5 ppm	10 ppm					
64-19-7	10 ppm	15 ppm					
- Germany - AGW (	BAuA - TRGS	900, 02/2022) :				_	
CAS	VME :	VME :	Excess	Notes	]		
7664-38-2		2E mg/m <sup>3</sup>		2(I)	7		
64-18-6		5 ppm		2(I)	]		
		9.5 mg/m <sup>3</sup>					
64-19-7		10 ppm		2(I)			
		25 mg/m <sup>3</sup>					
77-92-9		2E mg/m <sup>3</sup>		2 (I)	]		
- France (INRS - Or	utils 65 / 2021-1	849, 2021-1763	3, decree of 09/	12/2021):			
CAS	VME-ppm :	VME-mg/m3:	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :	7
7664-38-2	0.2	1	0.5	2	-	-	-
64-18-6	5	9	-	-	-	-	
64-19-7	10	25	20	50	-	-	
- UK / WEL (Work	place exposure l	imits, EH40/20	05, Fourth Edit	ion 2020) :			
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	]	
7664-38-2	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-			]	
64-18-6	5 ppm	-				1	
	$9.6 \text{ mg/m}^3$						

#### 8.2. Exposure controls

64-19-7

# Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

20 ppm

50 mg/m<sup>3</sup>

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

## - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

10 ppm

25 mg/m<sup>3</sup>

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

## - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

## - Body protection

Avoid skin contact.

Wear suitable protective clothing.

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Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing and, in particular, an apron and boots. These items of clothing shall be maintained in good condition and cleaned after use.

Work clothing worn by personnel shall be laundered regularly.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES** 

After contact with the product, all parts of the body that have been soiled must be washed.

9.1. Information on basic physical and chemical properties	
Physical state	
Physical state :	Fluid liquid.
Colour	
Unspecified	
Odour	
Odour threshold :	Not stated.
Melting point	
Melting point/melting range :	Not specified.
Freezing point	
Freezing point / Freezing range :	Not stated.
Boiling point or initial boiling point and boiling range	
Boiling point/boiling range :	Not specified.
Flammability	
Flammability (solid, gas) :	Not stated.
Lower and upper explosion limit	
Explosive properties, lower explosivity limit (%):	Not stated.
Explosive properties, upper explosivity limit (%):	Not stated.
Flash point	
Flash Point Interval :	$FP > 100^{\circ}C.$
Auto-ignition temperature	
Self-ignition temperature :	Not specified.
Decomposition temperature	
Decomposition point/decomposition range :	Not specified.
рН	
pH :	Not stated.
	Slightly acidic.
pH (aqueous solution) :	Not stated.
Kinematic viscosity	
Viscosity :	Not stated.
Solubility	
Water solubility :	Soluble.
Fat solubility :	Not stated.
Partition coefficient n-octanol/water (log value)	
Partition coefficient: n-octanol/water :	Not stated.
Vapour pressure	
Vapour pressure (50°C) :	Not relevant.
Density and/or relative density	
Density :	> 1

<b>Relative vapour density</b>	
Vapour density :	Not stated.
9.2. Other information	
No data available.	
9.2.1. Information with regard to physica	al hazard classes
No data available.	
9.2.2. Other safety characteristics	
No data available.	
SECTION 10 : STABILITY AND REACT	IVITY
10.1. Reactivity	
No data available.	
10.2. Chemical stability	
This mixture is stable under the recomme	ended handling and storage conditions in section 7.
10.3. Possibility of hazardous reactions	
No data available.	
10.4. Conditions to avoid	
No data available.	
10.5. Incompatible materials	
No data available.	
10.6. Hazardous decomposition products	
The thermal decomposition may release/	form :
- carbon monoxide (CO)	
- carbon dioxide (CO2)	
SECTION 11 : TOXICOLOGICAL INFO	RMATION
11.1.7.6	C

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure between three minutes and one hour.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

# 11.1.1. Substances

#### Acute toxicity :

L-MALIC ACID (CAS: 6915-15-7) Oral route :

LD50 = 3500 mg/kg bodyweight/day

LACTIC ACID (CAS: 50-21-5) Oral route :

LD50 = 3540 mg/kg bodyweight/day

# 11.1.2. Mixture

No toxicological data available for the mixture. **11.2. Information on other hazards** 

# **SECTION 12 : ECOLOGICAL INFORMATION**

## 12.1. Toxicity

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

#### No data available.

# 12.4. Mobility in soil

# No data available.

12.5. Results of PBT and vPvB assessment

No data available.

# 12.6. Endocrine disrupting properties

No data available.

# 12.7. Other adverse effects

No data available.

# SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

## **13.1.** Waste treatment methods

Do not pour into drains or waterways.

### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

## Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

# **SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

# 14.1. UN number or ID number

3265

## 14.2. UN proper shipping name

UN3265=CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (lactic acid)

# 14.3. Transport hazard class(es)

- Classification :



8

14.4. Packing group

Π

14.5. Environmental hazards

-

## 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C3	II	8	80	1 L	274	E2	2	Е
				-						
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregation	
			-				-	Handling		
	8	-	II	1 L	F-A. S-B	274	E2	Category B	SGG1 SG36	
								SW2	SG49	

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IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	II	851	1 L	855	30 L	A3 A803	E2
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

# 14.7. Maritime transport in bulk according to IMO instruments

No data available.

# **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Classification and labelling information included in section 2:** 

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

#### **Container information:**

No data available.

#### Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

#### **Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

# **Particular provisions :**

No data available.

# 15.2. Chemical safety assessment

No data available.

# **SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

# Wording of the phrases mentioned in section 3 :

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.