

# SAFETY DATA SHEET

SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

Trade name / designation SoftAcid IV+

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

RELEVANT IDENTIFIED USES Preservative

Product type description (UCN)	UCN-code
Preservatives for food or feedstocks	B15710

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

#### NATIONAL MANUFACTURER/IMPORTER

**Enterprise** Borregaard AS  
**Address** P.O.Box 162  
**Postal code** N-1701 SARPSBORG  
**Country** NORWAY  
**Telephone** +47 69 11 80 00  
**Fax** +47 69 11 86 40

#### CONTACT PERSONS

Name	Email	Telephone	Country
Nina Faye Haraldsted	MSDS@borregaard.com		

### 1.4 Emergency Telephone Number

Emergency Phone	Type of assistance	Opening Hours
+47 69 11 88 88	Borregaard emergency no.	24 h
112	Emergency	24 h
+47 22 59 13 00	National dept.for poisons information (Norway)	24 h

## 2 Hazards Identification

### 2.1 Classification of the substance or mixture

**DPD Classification:** Xi; R36/37/38  
**CLP Classification:** H315, H319, H335  
**Most important HSE hazard effects:** Causes skin Irritation.Causes serious eye Irritation.May cause respiratory Irritation.

### 2.2 Label elements



**Signal word:** Warning

#### COMPOSITION

Softacid concentrate (40 - 60 %), Formic acid 85% (40 - 55 %), Propionic acid 100% (5 - 15 %)

# SAFETY DATA SHEET

## SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

### H Statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

### P Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P321 Specific treatment (see ... on this label).  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P303/361/353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P337/313 If eye irritation persists: Get medical advice/attention.  
P405 Store locked up.  
P403/233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/Container (UK)

## 2.3 Other hazards

### OTHER HAZARDS

None known.

## 3 Composition/information on ingredients

### 3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Softacid concentrate				40 - 60 %	No classification required	
Formic acid 85%		200-579-1	64-18-6	40 - 55 %	C,R34	Skin Corr. 1B H314 Eye Dam. 1 H318
Propionic acid 100%		201-176-3	79-09-4	5 - 15 %	C,R34	Skin Corr. 1B H314 STOT SE 3 H335

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

## 4 First aid measures

### 4.1 Description of first aid measures

#### INHALATION

Move the exposed person to fresh air at once. Provide rest, warmth and fresh air.

#### INGESTION

DO NOT INDUCE VOMITING! Rinse nose and mouth with water. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Never give anything by mouth to an unconscious person. Immediately consult a doctor.

#### SKIN CONTACT

Rinse the skin immediately with lots of water. Take off immediately all contaminated clothing. Continue to rinse for at least 15 minutes. Consult a doctor if symptoms should occur.

#### EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids. Remove any contact lenses and continue rinsing with water for at least 15 minutes (keep the eyelids open). Get medical attention immediately. Continue to rinse.

# SAFETY DATA SHEET

SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

## GENERAL

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Give artificial respiration and/or heart massage, if necessary. Do not induce vomiting or give anything by mouth to an unconscious person.

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

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritating to eyes and skin.

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

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Important! Immediately rinse with water for 15-30 minutes. Remove any contact lenses and continue rinsing with water for at least 15 minutes (keep the eyelids open). Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Continue to rinse for 30 minutes. Get medical attention.

## 5 Fire-fighting measures

### 5.1 Extinguishing media

#### SUITABLE EXTINGUISHING MEDIA:

Can be extinguished with water mist, powder, foam or carbon dioxide.

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

#### SPECIAL HAZARDS

Not flammable, but combustible. In the event of a fire, carbon monoxide and carbon dioxide are emitted.

### 5.3 Advice for fire-fighters

#### ADVICE FOR FIREFIGHTERS

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

## 6 Accidental release measures

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

#### PERSONAL PRECAUTIONS

Avoid contact with the skin and eyes. Provide good ventilation. Eliminate all sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

### 6.2 Environmental precautions

#### ENVIRONMENTAL PRECAUTIONS

Prevent discharge into the sewage system or the immediate environment.

### 6.3 Methods and material for containment and cleaning up

#### METHODS AND MATERIAL

Absorb in inert material (vermiculite, dry sand or earth) for incineration. Neutralize with alkaline material (Lime, crushed limestone, sodium bicarbonate or soda ash). Flush area with water. Place in a suitable container for refuse treatment according to applicable regulations. Small quantities may be flushed to drains with plenty of water.

### 6.4 Reference to other sections

#### REFERENCES

See section 13 for instructions on disposal.

# SAFETY DATA SHEET

## SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

Provide good ventilation. Eliminate all sources of ignition. Avoid contact with skin and eyes. Avoid inhalation of vapours. If enclosed handling cannot be guaranteed, ventilation and protective clothing must be used.

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

##### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep container in a well-ventilated place. Keep container tightly closed and dry. Avoid high temperatures and direct sunlight. Not translated to English. Containers of acid-resistant material. Polyethylene.

#### 7.3 Specific end uses

##### SPECIFIC END USE(S)

Irritant.

### 8 Exposure controls / Personal protection

#### 8.1 Control parameters

##### OEL value

Ingredient name	CAS no.	Range	ppm	mg/m3	Year	Notification
Propionic acid 100%	79-09-4	8 h	10	30	2010	
Formic acid 85%	64-18-6	8 h	5	9	2013	

R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic

#### MONITORING PROCEDURES

When evaluating exposure, consider suitable method for sampling, and evaluate if stationary or mobile sampling is recommended.

#### 8.2 Exposure controls

##### APPROPRIATE ENGINEERING CONTROLS

Provide good ventilation. Avoid spilling, skin and eye contact. Good working hygiene must always be observed when handling product. Immediately remove contaminated clothes and wash them before reusing. Wash at the end of each work shift and before eating, smoking and using the toilet. Emergency shower and facilities for eye rinsing shall be available.

##### EYE PROTECTION

Use approved safety goggles or face shield.

##### SKIN PROTECTION

Wear appropriate clothing to prevent reasonably probable skin contact. Plastic or rubber gloves, apron and boots.

##### HAND PROTECTION

Use protective gloves made of: PVC. PTFE (Teflon). Neoprene. Not translated to English

##### RESPIRATORY PROTECTION

If necessary, respirator (full face mask) with E (yellow) filter and P2 particle filter, or breathing apparatus.

### 9 Physical and chemical Properties

#### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Liquid.

**COLOUR** Brown.

# SAFETY DATA SHEET

## SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

**ODOUR** Pungent.

**WATER SOLUBILITY** Miscible with water.

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	< 3	10% solution	
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	100 °C		
Flash point	70 °C		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temprature	No data		
Decomposition temprature	No data		
Viscosity	No data		

### 9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	1,15 g/cm <sup>3</sup>		

Note no.	Comments
----------	----------

### 10 Stability and Reactivity

#### 10.1 Reactivity

##### REACTIVITY

Not reactive.

#### 10.2 Chemical stability

##### CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

##### POSSIBILITY OF HAZARDOUS REACTIONS

None known.

#### 10.4 Conditions to avoid

##### CONDITIONS TO AVOID

Avoid heat, sparks and open flame.

#### 10.5 Incompatible materials

##### INCOMPATIBLE MATERIALS

Strong alkalis. Must be separated from nitric acid. May react violently with certain nitrates and chlorates. Reacts violently with peroxides.

#### 10.6 Hazardous decomposition products:

# SAFETY DATA SHEET

SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

## HAZARDOUS DECOMPOSITION PRODUCTS

On contact with certain metals, hydrogen is formed which, together with air, may form an explosive mixture. Formation of toxic gases if heated. Dangerous products of decomposition: carbon monoxide. Corrosive gases are generated when heated.

## OTHER INFORMATION

Heated product is more corrosive than cold product.

## 11 Toxicological information

### 11.1 Toxicological effects

#### ACUTE TOXICITY - ORAL

Irritant.

#### ACUTE TOXICITY - DERMAL

Irritating to skin.

#### ACUTE TOXICITY - INHALATION

Irritating to respiratory system.

#### SERIOUS EYE DAMAGE/IRRITATION

Irritating to eyes.

#### OTHER TOXICOLOGICAL INFORMATION

LD50 > 7000 mg/kg for Sodium-lignosulfonat. LD50 > 1210 mg/kg formic acid LD50: 2600 mg/kg, propionic acid

## 12 Ecological information

### 12.1 Toxicity

#### ECOTOXICITY

Not regarded as dangerous for the environment.

### 12.2 Persistence and degradability

#### DEGRADABILITY

Expected to be readily biodegradable.

### 12.3 Bioaccumulative potential

#### ACCUMULATION

Bioaccumulation improbable.

### 12.4 Mobility in soil

#### MOBILITY

Miscible with water.

### 12.5 Results of PBT and vPvB assessment

#### RESULT OF PBT AND VPVB ASSESSMENT

The product does not contain any PBT or vPvB substances.

### 12.6 Other adverse effects

#### OTHER EFFECTS

May change the pH of the water. Major discharge may have a negative effect in a water environment due to local pH reduction.

# SAFETY DATA SHEET

**SoftAcid IV+**

Last changed: 21/06/2013

Replaces date: 08/02/2012

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

Treat as dangerous waste. Collect and reclaim or dispose in sealed containers in licensed waste. Empty packages must be handled in an environmentally-correct manner as per the applicable laws and regulations.

## 14 Transport Information

Classified as Dangerous Goods: **No**

### Land transport (ADR/RID)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Hazard label(s)</b>	Not applicable.		
<b>Hazard ID:</b>	Not applicable.	<b>Tunnel restriction code</b>	Not applicable.

### Inland water ways transport (ADN)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Hazard label(s)</b>	Not applicable.		
<b>Environmentally hazardous in tank-vessels</b>	Not applicable.		

### Sea transport (IMDG)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.	<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.3 Class(es)</b>	Not applicable.		
<b>Hazard label(s)</b>	Not applicable.		
<b>Sub Risk: IMDG Code segregation group</b>	Not applicable.		
<b>Marine pollutant</b>	Not applicable.		
<b>Substance name(s) on marine pollutant</b>	Not applicable.		
<b>EMS:</b>	Not applicable.		

# SAFETY DATA SHEET

SoftAcid IV+

Last changed: 21/06/2013

Replaces date: 08/02/2012

## Air transport (ICAO-TI / IATA-DGR)

<b>14.1 UN-No.</b>	Not applicable.	<b>14.4 Packing group</b>	Not applicable.
<b>14.2 Proper Shipping Name</b>	Not applicable.		
<b>14.3 Class(es)</b>	Not applicable.		
<b>Hazard label(s)</b>	Not applicable.		

## OTHER INFORMATION

Not classified as dangerous goods.

## 15 Regulatory information

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

#### PROVISIONS

ADR/RID (2007).  
REACH (EC 1907/2006)  
ECHA FAQ 7.7  
GHS / CLP (EC NO1272/2008)

### 15.2 Chemical Safety Assessment

#### OTHER INFORMATION

This product is classified irritating based on tests ( OECD 404)

## 16 Other information

### Indication of changes

ISSUED: 14/04/2006

### Indication of changes

Version	Rev. date	Responsible	Changes
1.0.0	21/06/2013	Borregaard AS	NIHA

## VENDOR NOTES

Information given in this safety data sheet is in accordance with our information, and to the best of our knowledge, was correct on the last revision date. Information given is intended to present guidelines for safe handling, use, processing, storage, transport, disposal and discharge; it is not intended to be a guarantee or quality specification. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

### LIST OF RELEVANT R-PHRASES

R34 Causes burns.  
R36/37/38 Irritating to eyes, respiratory system and skin.

### LIST OF RELEVANT H-STATEMENTS

H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.