

SAFETY DATA SHEET**SYRU CIP 1L**

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 1: Identification of the substance / mixture and of the company / undertaking

Date issued 20.02.2014

Revision date 12.01.2022

1.1. Product identifier

Product name SYRU CIP 1L

Article no. 1472086, 1472088, 1472089

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

Use of the substance / mixture Food process cleaner.
Cleaning in place (CIP) process.
Descaling agent.

Uses advised against Uses other than those identified are not recommended.

The chemical can be used by the general public No

The chemical is used by general public only No

1.3. Details of the supplier of the safety data sheet

Company name Tandur h.f.

Office address Hestháis 12

Postcode 110

City Reykjavík

Country ICELAND

Telephone number 00354 510 1200

Email tandur@tandur.is

Website www.tandur.is

1.4. Emergency telephone number

Emergency telephone Telephone number: 112
Description: EMERGENCY#

Telephone number: (+354)-543-2222
Description: POISON CENTER

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No 1272/2008
[CLP / GHS]

Skin Corr. 1A; H314

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label

Phosphoric acid 30 - 50 % wt/wt

Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor / physician.

2.3. Other hazards

PBT / vPvB

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Phosphoric acid	CAS No.: 7664-38-2	Skin Corr. 1B; H314	30 - 50 % wt/wt	
	EC No.: 231-633-2	Eye Dam. 1; H318		
	Index No.: 015-011-00-6	Met. Corr. 1; H290		
	REACH Reg. No.:	Acute Tox. 4; H302		
	01-2119485924-24-0001	Note : B		
C6 Alkyl glucoside	CAS No.: 54549-24-5	Eye Dam. 1; H318	0 - 1 % wt/wt	
	EC No.: 259-217-6			
	REACH Reg. No.:			
	01-2119492545-29			

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Show this sheet or relevant SDS to the doctor in attendance.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
Skin contact	Flush skin thoroughly with water. Take off contaminated clothing and wash before reuse. Get medical advice/attention.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Continue flushing during transport to hospital.
Ingestion	Rinse mouth thoroughly. Drink a few glasses of water or milk. Immediately call a POISON CENTER or doctor/physician.
Recommended personal protective equipment for first aid responders	Wear protective gloves / protective clothing / eye protection / face protection.

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

Information for health personnel	CORROSIVE PRODUCT: Contains PHOSPHORIC ACID. IF IN EYES: Remember to remove lenses if they are present. Ask patient. Continue eye rinsing/treatment. Call an eye specialist in all cases.
Acute symptoms and effects	Causes severe skin burns and eye damage. See further section 11.1 under "Potential Acute Effects"

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water or alcohol-resistant foam.
------------------------------	---

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Personal protective equipment	Wear respiratory protection. Wear protective gloves / protective clothing / eye protection / face protection.
Fire fighting procedures	Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Wear protective gloves / protective clothing / eye protection / face protection. Call a POISON CENTER or doctor/physician if you feel unwell.
Hazardous combustion products	Not relevant.
For emergency responders	Wear protective gloves / protective clothing / eye protection / face protection. Call a POISON CENTER or doctor/physician if you feel unwell.

6.2. Environmental precautions

Environmental precautionary measures	Avoid release to the environment. Collect spillage.
--------------------------------------	---

6.3. Methods and material for containment and cleaning up

Cleaning method	Collect spillage.
Containment	Store in a closed container.

6.4. Reference to other sections

Other instructions	See 8.2
--------------------	---------

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Acids. First-aid equipment, including eye wash bottle, must be available at the work site.
----------	--

Protective safety measures

Protective safety measures	Handle in accordance with good industrial hygiene and safety practice. Do not mix with other chemicals. Use only with adequate ventilation. Avoid formation of aerosols.
Preventitive measures to protect the environment	Prevent the product to reach sewage water or drainage system undiluted or unneutralized. Collect spillage if possible.
Advice on general occupational hygiene	Private clothes and working clothes should be kept separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Corrosive storage. Keep in original container. Store protected from acids. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs.
---------	---

7.3. Specific end use(s)

Specific use(s)	See 1.2
-----------------	---------

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Phosphoric acid	CAS No.: 7664-38-2	Limit value (8 h) : 1 mg/m ³	TWA Year: 2011
		Limit value (short term)	
		Value: 2 mg/m ³	
		Limit value (8 h) : 1 mg/m ³	
C6 Alkyl glucoside	CAS No.: 54549-24-5	Limit value (short term)	
		Value: 2 mg/m ³	

DNEL / PNEC

Substance	Phosphoric acid
DNEL	<p>Group: Professional Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 3,1 mg/m³</p> <p>Group: Professional Route of exposure: Long term (repeated) - Inhalation - Local effect Value: 2,92 mg/m³</p> <p>Group: Professional Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 17,4 mg/kg</p>
PNEC	<p>Route of exposure: Water Value: 0,17 mg/l Reference: Marine water</p> <p>Route of exposure: Water Value: 1,7 mg/l Reference: Freshwater</p>
Substance	C6 Alkyl glucoside
DNEL	<p>Group: Professional Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 420 mg/m³</p> <p>Group: Consumer Route of exposure: Long term (repeated) - Oral - Systemic effect Value: 35,7 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 124 mg/m³</p> <p>Group: Professional Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 595000 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 357000 mg/kg bw/day</p>
PNEC	<p>Route of exposure: Water Value: 0,01 mg/l Reference: Marine water</p> <p>Route of exposure: Soil Value: 0,654 mg/kg dry weight</p> <p>Route of exposure: Sediment Value: 0,0410 mg/day dry weight Reference: Fresh water sediment Marine sediment</p> <p>Route of exposure: Sediment Value: 0,410 mg/kg dry weight</p>

Reference: Fresh water sediment

Route of exposure: Sewage treatment plant STP

Value: 100 mg/l

Route of exposure: Water

Value: 0,1 mg/l

Reference: Fresh water

8.2. Exposure controls

Limitation of exposure on workplace

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Safety signs



Precautionary measures to prevent exposure

Instruction on measures to prevent exposure

Secure access of workers to safety information.

Organisational measures to prevent exposure

Avoid direct contact and/or splashes where possible. Train personnel.

Technical measures to prevent exposure

Use only through automatic dosing systems. Use safety glasses/goggles and protective clothing.

Eye / face protection

Eye protection

Use approved safety goggles or face shield. Safety glasses should have side shields.

Suitable eye protection

Safety glasses should have side shields.

Reference to relevant standard

EN 166

Hand protection

Hand protection

Wear protective gloves.

Skin- / hand protection, short term contact

Butylrubber:
Penetration time: ≥ 480 min
Material thickness: $\geq 0,7$ mm

Suitable gloves type

Butylrubber (prolonged contact)
Nitrilrubber (protection against splashes)
Chloroprene rubber.
Rubber (natural, latex).

Thickness of glove material

Value: $\geq 0,4$ mm

Reference to relevant standard

EN 374

Skin protection

Skin protection (except hands)	Wear suitable protective clothing as protection against splashing or contamination.
--------------------------------	---

Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.
Tasks needing respiratory protection	Not determined.

Appropriate environmental exposure control

Environmental exposure controls	Should not reach sewage water or drainage system undiluted or unneutralized.
---------------------------------	--

Appropriate environmental exposure control

Exposure controls and personal protection, additional information	To be used only in closed systems (CIP).
---	--

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Colourless liquid.
Colour	Colourless.
Odour	No characteristic odour.
pH	Value: > 2 Test reference: Undiluted Temperature: 20 °C
Freezing point	Comments: Note determined.
Bulk density	Value: = 1,29 g/ml Temperature: ~ 20 °C
Solubility in water	Soluble in all proportions.
Viscosity	Comments: Not determined.
Oxidising properties	None.

9.2. Other information

Physical hazards

Metal corrosion	Corrosive to light metals including aluminium.
-----------------	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No specific reactivity hazards associated with this product.
------------	--

10.2. Chemical stability

Stability	The mixture is stable under normal storage and use conditions.
-----------	--

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Contact with products or mixtures containing chlorine bleach or sodium hypochlorite will release toxic chlorine gas.

10.4. Conditions to avoid

Conditions to avoid

Reacts with alkalis and generates heat. Do not mix with products containing chlorine bleach of any kind. That will lead to the formation of toxic chlorine gas.

10.5. Incompatible materials

Materials to avoid

Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products

No hazardous decomposition products.

SECTION 11: Toxicological information

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

Substance

Phosphoric acid

Acute toxicity

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Dermal

Value: > 1260 mg/kg

Type of toxicity: Acute

Effect tested: LC50

Route of exposure: Inhalation.

Duration: 4 h

Value: = 25,5 mg/m³

Animal test species: Mouse

Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Value: = 1530 mg/kg

Animal test species: Rat

Type of toxicity: Acute

Effect tested: LD₅₀

Route of exposure: Oral

Value: = 220 mg/kg

Other information regarding health hazards

General

This substance is corrosive.

Inhalation

Corrosive. Serious damage to the lining of nose, throat and lungs.

Skin contact

Causes severe burns.

Eye contact

Highly Corrosive. Risk of serious damage to eyes. Immediate first aid is

	necessary.
Ingestion	Corrosive. May cause chemical burns in mouth, oesophagus and stomach.
Mutagenicity	No information available on mixture. However, studies have not shown any indication of mutagenicity of individual substances in the mixture.
Carcinogenicity, other information	No information or data available on mixture. However, there is no evidence of carcinogenicity on individual substances in the mixture.
Reproductive toxicity	No information or data available on mixture. However, studies have not shown any indication of reproductive toxicity for individual substances in the mixture.

11.2 Other information

Comments	See 4.1
----------	---------

SECTION 12: Ecological information

12.1. Toxicity

Substance	C6 Alkyl glucoside
Aquatic toxicity, fish	Value: > 100 mg/l Test duration: 96 h
Substance	C6 Alkyl glucoside
Aquatic toxicity, algae	Value: > 100 Test duration: 72 h
Substance	C6 Alkyl glucoside
Aquatic toxicity, crustacean	Value: > 100 mg/l Test duration: 48 h Species: Daphnia magna (Water flea) Comments: The value is estimated from tests on similar products.

12.2. Persistence and degradability

Persistence and degradability, comments	No information available on mixture. However, individual substances are all classified as readily biodegradable.
---	--

12.3. Bioaccumulative potential

Bioaccumulative potential	No data recorded.
---------------------------	-------------------

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
Substance	Phosphoric acid
PBT assessment results	Data lacking.
Substance	C6 Alkyl glucoside
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Avoid release to the environment. Dispose of waste and residues in accordance with local authority requirements.
Relevant waste regulation	Reglugerð 737/2003
Hazardous waste packing	Avoid release to the environment.
Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
EWC waste code	EWC: 060104 phosphoricand phosphorous acid
National regulations	Regulation 184/2002
Other information	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

ADR/RID/ADN	1805
IMDG	1805
ICAO/IATA	1805

14.2. UN proper shipping name

ADR/RID/ADN	PHOSPHORIC ACID, SOLUTION
IMDG	PHOSPHORIC ACID SOLUTION
ICAO/IATA	PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards**14.6. Special precautions for user****14.7. Maritime transport in bulk according to IMO instruments****ADR/RID Other information**

Hazard No.	80
------------	----

IMDG Other information

EmS	F-A, S-B
-----	----------

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

Legislation and regulations	<p>This safety datasheet is in compliance with the following EU legislation and its adaptations - as far as applicable:</p> <p>Regulation 1907/2006 and later 750/2008 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Amendments on Annex II of the REACH regulation with EU regulation 453/2010.</p> <p>Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures which replaces EU legislations 67/548/EEC og 1999/45/EEC and changes regulation No. 1907/2006.</p>
-----------------------------	---

15.2. Chemical safety assessment

Chemical safety assessment performed	No
--------------------------------------	----

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	<p>H290 May be corrosive to metals.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p>
Abbreviations and acronyms used	<p>GHS: Globally Harmonized System</p> <p>CLP: Classification, labelling and packaging</p> <p>DNEL: Derived No Effect Limit (afleidd áhrifaleysismörk).</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>PNEC: Predicted No Effect Concentration</p> <p>vPvB: Very Persistent and very Bioaccumulative</p> <p>REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.</p>
Revision responsible	Alfred Aðalsteinsson (M.Sc. Chemistry); email: alfred@tandur.is
Last update date	12.04.2018
Version	5
Prepared by	Birgir Ö. Gudmundsson (Ph.D Chemistry); email: birgir@tandur.is