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- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).

The product is classified and labelled according to the CLP regulation.

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Trade name: Lime-So	blv v.2	
		(Contd. of page 1)
 Hazard pictogram 	ns	
\land		
(4 E)		
GHS05		
· Signal word Dang	ger	
-	ing components of labelling:	
phosphoric acid		
Hazard statement		
H290 May be corre	osive to metals.	
	ere skin burns and eye damage.	
· Precautionary sta		
P260	Do not breathe mist/vapours/spray. Wear protective gloves / eye protection.	
P280 P303+P361+P353	 3 IF ON SKIN (or hair): Remove/Take off immedia skin with water/shower. 	tely all contaminated clothing. Rinse
P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for seve if present and easy to do. Continue rinsing.	eral minutes. Remove contact lenses,
P301+P330+P331	1 IF SWALLOWED: rinse mouth. Do NOT induce ve	omiting.
P406	Store in corrosive resistant container with a resist	ant inner liner.
P501	Dispose of contents/container in accordance wit regulations.	h local/regional/national/international
· Hazard description	Second The second se	
WHMIS-symbols:		
	rial causing other toxic effects	
E - Corrosive mate	erial	
T		
· NFPA ratings (sc	:ale 0 - 4)	
Health	= 3	
Fire = (
Reactiv	vity = 0	
HMIS-ratings (sc	ale 0 - 4)	
HEALTH 3 Healt	h = 3	
FIRE D Fire =		
REACTIVITY 0 React	tivity = 0	
HMIS Long Term	Health Hazard Substances	
None of the ingree		
2.3 Other hazard		
• Results of PBT a	and vPvB assessment	
	56.	(Contd. on page 3)

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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7664-38-2 phosphoric acid

EINECS: 231-633-2 C R34 Index number: 015-011-00-6 Skin Corr. 1B, H314

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Strong caustic effect on skin and mucous membranes.

- Cramp
- Coughing

Nausea

Gastric or intestinal disorders when ingested.

Hazards

Danger of gastric perforation.

Danger of severe eye injury.

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

No further relevant information available.

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: None.

• 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

• Additional information No further relevant information available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Use limestone to neutralize and absorb spill.

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

Warm water

· 6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about fire - and explosion protection: No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

Requirements to be met by storerooms and receptacles:

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Store in a cool location.

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Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients v	vith limit values that require monitoring at the workplace:	
7664-38-2 ph	osphoric acid	
IOELV (EU)	Short-term value: 2 mg/m³ Long-term value: 1 mg/m³	
PEL (USA)	Long-term value: 1 mg/m ³	
REL (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
TLV (USA)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
EL (Canada)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
EV (Canada)	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
PNECs No fu	rther relevant information available. rther relevant information available. f ormation: The lists valid during the making were used as basis.	
General prot The usual prot Keep away fr Immediately i Wash hands Avoid contact Respiratory Not required Use suitable Use suitable	ective equipment: ective and hygienic measures: ecautionary measures are to be adhered to when handling chemicals. om foodstuffs, beverages and feed. remove all soiled and contaminated clothing. before breaks and at the end of work. t with the eyes and skin. protection: under normal conditions of use. respiratory protective device in case of insufficient ventilation. respiratory protective device when aerosol or mist is formed.	
· •. •p		(Contd. on page 6)
Use suitable	piratory protection may be advisable.	(Contd. on page 6)

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rade name: Lime-Solv v.2	
	(Contd. of page 5)
Protection of hands:	
Protective gloves	
The glove material has to be imperme Selection of the glove material on o degradation.	eable and resistant to the product/ the substance/ the preparation. consideration of the penetration times, rates of diffusion and the
Material of gloves Rubber gloves	
PVC gloves	
Neoprene gloves The selection of the suitable gloves guality and varies from manufactu	does not only depend on the material, but also on further marks of rer to manufacturer. As the product is a preparation of several
checked prior to the application.	ve material can not be calculated in advance and has therefore to be
Penetration time of glove material	
The exact break through time has to	be found out by the manufacturer of the protective gloves and has to
be observed. Not suitable are gloves made of the	following materials: PVA gloves
Eye protection:	o lonowing materials. I vA gioves
Contact lenses should not be worn.	
Safety glasses	
Body protection: Acid resistant protection	
Limitation and supervision of expo	
No further relevant information availa Risk management measures	Die.
See Section 7 for additional information	on.
No further relevant information availa	ble.
SECTION 9: Physical and che	emical properties
• 9.1 Information on basic physical a • General Information	nd chemical properties
· Appearance:	
Form:	Liquid
Colour: · Odour:	Blue Characteristic
· Odour: · Odour threshold:	Not determined.
pH-value at 20 °C:	0,00 - 2,00
Change in condition	
Melting point/Melting range:	Not Determined.
Boiling point/Boiling range:	Undetermined. (Contd. on page 7)
	(Contd. on page 7)

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Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto/Self-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C: Relative density Vapour density Evaporation rate	1,18 - 1,20 g/cm³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity: Dynamic: Kinematic: 9.2 Other information	Not determined. Not determined. No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Reacts with metals forming hydrogen.

Corrosive action on metals.

Reacts with alkali (lyes).

Develops corrosive gases/fumes.

Toxic fumes may be released if heated above the decomposition point.

• 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

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Phosphorus oxides (e.g. P2O5)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitisation: No sensitising effects known
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark:

Harmful to fish

After neutralisation toxicitity cannot be recognised anylonger.

- Additional ecological information:
- General notes:
- Avoid transfer into the environment.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

12.6 Other adverse effects No further relevant information available.

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Trade name: Lime-Solv v.2 (Contd. of page 9) · IMDG, IATA 1.1 8 Corrosive substances. · Class 8 · Label · 14.4 Packing group Ш · DOT, ADR, IMDG, IATA · 14.5 Environmental hazards: No · Marine pollutant: Warning: Corrosive substances. 14.6 Special precautions for user 80 Danger code (Kemler): F-A,S-B · EMS Number: Acids · Segregation groups 14.7 Transport in bulk according to Annex II of Not applicable. MARPOL73/78 and the IBC Code · Transport/Additional information: · ADR 5L · Limited quantities (LQ) 3 · Transport category · Tunnel restriction code Е UN1805, PHOSPHORIC ACID SOLUTION, 8, III · UN "Model Regulation":

SECTION 15: Regulatory information

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

 United States (USA)

 SARA

 Section 355 (extremely hazardous substances):

 None of the ingredients are listed.

 Section 313 (Specific toxic chemical listings):

 7664-38-2
 phosphoric acid

 TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

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	(Contd. of page
-	Chemicals known to cause developmental toxicity:
	None of the ingredients are listed.
	· Carcinogenic Categories
	· EPA (Environmental Protection Agency)
-	None of the ingredients are listed.
	· IARC (International Agency for Research on Cancer)
•	None of the ingredients are listed.
	TLV (Threshold Limit Value established by ACGIH)
	None of the ingredients are listed.
	· NIOSH-Ca (National Institute for Occupational Safety and Health)
	None of the ingredients are listed.
	· Canada
	· Canadian Domestic Substances List (DSL)
	All ingredients are listed.
-	Canadian Ingredient Disclosure list (limit 0.1%)
	None of the ingredients are listed.
-	· Canadian Ingredient Disclosure list (limit 1%)
	7664-38-2 phosphoric acid
-	• Other regulations, limitations and prohibitive regulations This product has been classified in accordance with hazard criteria of the Controlled Produ Regulations and the SDS contains all the information required by the Controlled Products Regulations.
	Substances of very high concern (SVHC) according to REACH, Article 57
	None of the ingredients are listed.
	• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
	SECTION 16: Other information

· Relevant phrases

H314 Causes severe skin burns and eye damage.

R34 Causes burns.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) Met. Corr. 1: Corrosive to metals, Hazard Category 1 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B **Sources** SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com