SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

LIME PRIME

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

1.1. Product identifier

Product name **:LIME PRIME**
Registration number REACH **:**Not applicable (mixture)
Product type REACH **:** Mixture

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

1.2.1 Relevant identified uses

Primer

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Intelligent Membranes Ltd.
Clopton Farm, Lower Road
Croydon, SG8 0EF, United Kingdom
☎ +441223208174
info@intelligentmembranes.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English) : +441223208174

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008
Supplemental information
EUH208 Contains: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210Safety data sheet available on request.

2.3. Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

aluminium hydroxide21645-51-2 01-2119529246-39 244-492-7
(2) Substance with a Community workplace exposure limit

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
		C<25%		(2)	Constituent

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call emergency services. Treat symptoms starting with the most life threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:
Not applicable.

After skin contact:
Not applicable.

After eye contact:
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralising agents without medical advice. Take victim to an ophthalmologist if irritation persists

After ingestion:
Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult poison center.

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

4.2.1 Acute symptoms
After inhalation:
No effects known.
After skin contact:
No effects known.
After eye contact:
No effects known.
After ingestion:
No effects known.
4.2.2 Delayed symptoms
No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:
Small fire: Quick acting ABC powder, BC powder, class B foam, CO2 extinguishers. Major fire: Class B foam (alcohol-resistant). Water spray if puddle cannot expand.
5.1.2 Unsuitable extinguishing media:
Small fire: Water (quick acting extinguisher, reel; risk of puddle expansion. Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours and sulphur oxides.

5.3. Advice for firefighters

5.3.1 Instructions:
No specific fire-fightng instructions required.
5.3.2 Special protective equipment for fire-fighters:
Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.
6.1.1 Protective equipment for non-emergency personnel
See heading 8.2
6.1.2 Protective equipment for emergency responders
Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).
Suitable protective clothing
See heading 8.2

6.2. Environmental precautions

Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment aer handling.

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are a relevant exposure scenarios that correspond to your idenfied use.

7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe strict hygiene.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:
Storage temperature: 5 °C - 30 °C. Meet the legal requirements.
7.2.2 Keep away from:
Heat sources.

7.2.3 Suitable packaging material:
Plastics.

7.2.4 Non suitable packaging material:
No data available.

7.3. Specific end use(s)

If applicable and available,exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure
a) Occupational exposure limit values
If limit values are applicable and available these will be listed below.

Belgium

Aluminium (métal et composés insolubles, fraction alvéolaire)

Time-weighted average exposure limit 8 h
1 mg/m³

USA (TLV-ACGIH)

Aluminium, insoluble compoundsTime-weighted average exposure limit 8 h (TLV - Adopted Value)
(R): Respirable fraction

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods
Product nameTestNumber

Aluminum & Compounds (as Al)NIOSH7013

8.1.3 Applicable limit values when using the substance or mixture as intended
If limit values are applicable and available these will be listed below.

8.1.4 Threshold values
DNEL/DMEL - Workers
aluminium hydroxide

Effect level (DNEL/DMEL)TypeValueRemark

DNELLong-term systemic effects inhalation10.76 mg/m³

Long-term local effects inhalation10.76 mg/m³

DNEL/DMEL - General population
aluminium hydroxide

Effect level (DNEL/DMEL)TypeValueRemark

DNELLong-term systemic effects oral4.74 mg/kg bw/day

8.1.5 Control banding
If applicable and available it will be listed below.

8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your idenfied use.

8.2.1 Appropriate engineering controls
Carry operations in the open/under local
exhaust/ventilation or with respiratory protection.

8.2.2 Individual protection measures, such as personal protective equipment
Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:
Respiratory protection not required in normal conditions.

b) Hand protection:

Chemical-resistant gloves.

c) Eye protection:

Safety glasses(EN166).

d) Skin protection:

Protective clothing(EN14605or EN13034).

8.2.3 Environmental exposure controls:

See headings6.2,6.3and13

SECTION 9: Physical and chemical properties

Physical form	Paste
Viscosity	Viscous
Odour	Mild odour
Odour threshold	No data available (test not performed)

Colour	white
Particle size	Not applicable
Explosion limits	No data available(test not performed)
Flammability	Not classified as flammable
Log Kow	Not applicable(mixture)
Dynamic viscosity	No data available(test not performed)
Kinematic viscosity	No data available(test not performed)
Melting point	No data available(test not performed)
Boiling point	No data available(test not performed)
Relative vapour density	No data available(test not performed)
Vapour pressure	No data available(test not performed)
Solubility	Water ; soluble
Relative density	No data available(test not performed)
Absolute density	No data available(test not performed)
Decomposition temperature	No data available(test not performed)
Auto-ignition temperature	No data available(test not performed)
Flash point	> 100 °C
pH	No data available (test not performed)

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures
No data available

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours and sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

Conclusion
Not classified for acute toxicity

Corrosion/irritation

Conclusion
Not classified as irritating to the skin
Not classified as irritating to the respiratory system
Not classified as irritating to the eyes

Respiratory or skin sensitisation

Conclusion
Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

Specific target organ toxicity

Conclusion
Not classified for subchronic toxicity

Mutagenicity (in vitro)

Mutagenicity (in vitro)

Conclusion
Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

Conclusion
Not classified for carcinogenicity

Reproductive toxicity

Conclusion
Not classified for reprotoxic or developmental toxicity

Chronic effects from short and long-term exposure

LIME PRIME
Skin rash/inflammation.

SECTION 12: Ecological information

12.1. Toxicity

LIME PRIME
aluminium hydroxide

Route of exposure	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fish	LC50	US EPA	>218 mg/I	96 h	Pimephales promelas	Semi-static system	Fresh water	Experimental value of similar product; Aluminium

Conclusion
Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2. Persistence and degradability

Water
No test data of component(s) available

12.3. Bioaccumulative potential

LIME PRIME

Low kow method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Low kow method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion
Nom test data of component(s) available.

12.4. Mobility in soil

Contains component(s) with potential for mobility in the soil

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s)fulfil(s)the criteria of PBT and vPvB according to Annex XIII of Regulaon(EC)No1907/2006.

12.6. Other adverse effects

LIME PRIME
Greenhouse gases
None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)
Ozone-depleting potential (ODP)
Not classified as dangerous for the ozone layer(Regulation(EC)No1005/2009)

12.7. Endocrine disrupting properties

No evidence of endocrine disrupting properties

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your idenfied use.

13.1. Waste treatment methods

13.1.1 Provisions relating to waste
European Union
Can be considered as non hazardous waste according to Direcve2008/98/EC, as amended by Regulation(EU)No1357/2014and Regulaon (EU)No2017/997.The waste code must be assigned by the user, preferably in consultation with the(environmental) authorities concerned.

13.1.2 Disposal methods
Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

Any waste water from cleaning machinery on site will be sealed in product containers and returned to Intelligent Membranes for disposal.

13.1.3 Packaging/Container
European Union

Waste material code packaging (Directive 15 01 02 (plastic packaging).

SECTION 14: Transport information

Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	
Transport	Not subject
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
Hazard identification number	
Class	
Classification code	
14.4. Packing group	
Packing group	
Labels	
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Annex II of MARPOL 73/78	Not applicable, based on available data

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content

Insufficient data

National legislation The Netherlands

LIME PRIME

WaterbezwaarlijkheidB (4); Algemene Beoordelingsmethodiek (ABM)

National legislation Germany

LIME PRIME

WGK2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017

aluminium hydroxide

TA-Luft 5.2.1

Other relevant data

LIME PRIME

No data available

aluminium hydroxide

TLV - CarcinogenAluminium metal and insoluble compounds; A4

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that me. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from me to me. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhausveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.