SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

PLUMB7

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

1.1 Product identifier:

Product name : PLUMB7
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

Sealing compound

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

Novatech International
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
🖷 +32 14 85 97 38
info@tec7.be

Manufacturer of the product

Novatech International
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
🖷 +32 14 85 97 38
info@tec7.be

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

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

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Not classified as dangerous according to the criteria of Directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

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

Supplemental information

EUH208 Contains: tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione. May produce an allergic reaction.

2.3 Other hazards:

CLP

No other hazards known

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

This mixture does not contain any notifiable substances

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
sodium nitrite 01-2119471836-27	7632-00-0 231-555-9	C<5 %	O; R8 T; R25 N; R50	Ox. Sol. 2; H272 Acute Tox. 3; H301 Eye Irrit. 2; H319 Aquatic Acute 1; H400	(1)(6)(8)	Constituent
sodium hydroxide 01-2119457892-27	1310-73-2 215-185-5	C<5 %	C; R35	Met. Corr. 1; H290 Skin Corr. 1A; H314	(1)(2)(6)(8)	Constituent
tetrahydro-1,3,4,6-tetrakis(hydroxymethyl) imidazo[4,5-d]imidazole-2,5(1H,3H)-dione	5395-50-6 226-408-0	C<5 %	R43	Skin Sens. 1; H317	(1)	Constituent

(1) For R-phrases and H-statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data
(8) Specific concentration limits, see heading 16

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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:

Water spray. Polyvalent foam. Dry chemical powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO2 are formed.

5.3 Advice for firefighters:

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance.

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 after 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 attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Observe strict hygiene. Keep container tightly closed.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: <50 °C. Keep container in a well-ventilated place. Keep out of direct sunlight. Protect against frost. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

No data available

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

Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h	2 mg/m³ (M)

La mention “M” indique que lors d’une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d’intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l’exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d’échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d’échantillonnage.

USA (TLV-ACGIH)

Sodium hydroxide	Momentary value (TLV - Adopted Value)	2 mg/m³

France

Sodium (hydroxyde de)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	2 mg/m³

UK

Sodium hydroxide	Short time value (Workplace exposure limit (EH40/2005))	2 mg/m³

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

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 DNEL/PNEC values

DNEL - Workers

sodium nitrite

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2 mg/m³	
	Acute systemic effects inhalation	2 mg/m³	

sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m³	

DNEL - General population

sodium hydroxide

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term local effects inhalation	1 mg/m³	

PNEC

sodium nitrite

Compartments	Value	Remark
Fresh water	0.0054 mg/l	
Marine water	0.00616 mg/l	
STP	0.0054 mg/l	
STP	21 mg/l	
Fresh water sediment	0.0195 mg/kg sediment dw	
Marine water sediment	0.0223 mg/kg sediment dw	
Soil	0.000733 mg/kg soil dw	

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 identified use.

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

Materials	Breakthrough time	Thickness
viton	>480 minutes	0.7 mm

- materials (good resistance)

Viton.

c) Eye protection:

Face shield.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical form	Liquid
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non-flammable

Log Kow	Not applicable (mixture)
Dynamic viscosity	1mPa.s ; 20°C
Kinematic viscosity	1mm²/s ; 20°C
Melting point	0°C
Boiling point	100°C
Flash point	No data available
Evaporation rate	0.3 ; butyl acetate
Relative vapour density	No data available
Vapour pressure	23hPa ; 20°C
Solubility	water ; insoluble
Relative density	1.1 ; 20°C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	11.2

9.2 Other information:

Absolute density	1083kg/m³ ; 20°C

SECTION 10: Stability and reactivity

10.1 Reactivity:

Substance has basic reaction.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

No data available.

10.5 Incompatible materials:

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

10.6 Hazardous decomposition products:

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

PLUMB7

No (test)data on the mixture available

sodium nitrite

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Other	180mg/kg		Rat (male)	Experimental value	
Dermal						Data waiving	
Inhalation	LC50		5.5mg/l	4 h	Rat	Literature study	
Inhalation						Data waiving	

sodium hydroxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral						Data waiving	
Dermal						Data waiving	
Inhalation						Data waiving	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

PLUMB7

No (test)data on the mixture available

sodium nitrite

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Moderately irritating	OECD 405	24 h	24 hours	Rabbit	Inconclusive, insufficient data	

sodium hydroxide

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Expert judgement	2% aqueous solution
Eye	Highly corrosive					Expert judgement	Aqueous solution
Skin	Highly corrosive					Expert judgement	

Judgement is based on the relevant ingredients

Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

PLUMB7

No (test)data on the mixture available

tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing; category 1					Literature study	

Classification is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

PLUMB7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

PLUMB7

No (test)data on the mixture available

Mutagenicity (in vivo)

PLUMB7

No (test)data on the mixture available

Carcinogenicity

PLUMB7

No (test)data on the mixture available

Reproductive toxicity

PLUMB7

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

PLUMB7

No (test)data on the mixture available

Chronic effects from short and long-term exposure

PLUMB7

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

SECTION 12: Ecological information

12.1 Toxicity:

PLUMB7

No (test)data on the mixture available

sodium nitrite

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.54mg/l	96 h	Oncorhynchus mykiss	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	OECD 202	15.4mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC10	ISO 8192	> 1800mg/l	0.5 h	Activated sludge			Experimental value

sodium hydroxide

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Other	45.4mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value; Solution >=50%
Acute toxicity invertebrates	EC50	Other	40.4mg/l	48 h	Ceriodaphnia sp.			Experimental value; Nominal concentration

Judgement of the mixture is based on the relevant ingredients

Conclusion

pH shift

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

12.2 Persistence and degradability:

No test data of component(s) available

12.3 Bioaccumulative potential:

PLUMB7

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

sodium nitrite

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		-3.7	25 °C	Experimental value

sodium hydroxide

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (inorganic)			

tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

No (test)data on mobility of the components available

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 Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

PLUMB7

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

sodium nitrite

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

sodium hydroxide

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ground water

Ground water pollutant

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 identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).
16 05 09 (gases in pressure containers and discarded chemicals: discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08).
Depending on branch of industry and production process, also other waste codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Treat using the best available techniques before discharge into drains or the aquatic environment.

13.1.3 Packaging/Container

No data available.

SECTION 14: Transport information

Road (ADR)

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	

Rail (RID)

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	

Inland waterways (ADN)

14.1 UN number:

Transport	Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

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	

Sea (IMDG/IMSBC)

14.1 UN number:

Transport	Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Marine pollutant	-
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 73/78 and the IBC Code:

Annex II of MARPOL 73/78	

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

Class	

14.4 Packing group:

Packing group	
Labels	

14.5 Environmental hazards:

Environmentally hazardous substance mark	no

14.6 Special precautions for user:

Special provisions	
Passenger and cargo transport: limited quantities: maximum net quantity per packaging	

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	Remark
0.000g/l	

National legislation The Netherlands

PLUMB7

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 03
Waterbezwaarlijkheid	Insufficient data available

National legislation Germany

PLUMB7

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

sodium nitrite

TA-Luft	5.2.1

National legislation France

PLUMB7

No data available

National legislation Belgium

PLUMB7

No data available

Other relevant data

PLUMB7

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

Contains: tetrahydro-1,3,4,6-tetrakis(hydroxymethyl)imidazo[4,5-d]imidazole-2,5(1H,3H)-dione. May produce an allergic reaction.

Full text of any R-phrases referred to under headings 2 and 3:

R08 Contact with combustible material may cause fire
R25 Toxic if swallowed
R35 Causes severe burns
R43 May cause sensitisation by skin contact
R50 Very toxic to aquatic organisms

Full text of any H-statements referred to under headings 2 and 3:

H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H301 Toxic if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive
CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

sodium hydroxide	C ≥ 5 %	Skin Corr. 1A; H314	CLP Annex VI (ATP 0)
	2 % ≤ C < 5%	Skin Corr. 1B; H314	CLP Annex VI (ATP 0)
	0,5 % ≤ C < 2%	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)
	0,5 % ≤ C < 2 %	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)

Specific concentration limits DSD

sodium nitrite	C ≥ 5 %	T; R25	DSD Annex VI (ATP 0)
	1 % ≤ C < 5 %	Xn; R22	DSD Annex VI (ATP 0)
sodium hydroxide	C ≥ 5 %	C; R35	DSD Annex VI (ATP 0)
	2 % ≤ C < 5 %	C; R34	DSD Annex VI (ATP 0)
	0,5 % ≤ C < 2 %	Xi; R36/38	DSD Annex VI (ATP 0)