

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT NAME:MAX 4014 HYBRID PULASTIC

IDENTIFIED USES Any Surface to Any Surface PU Adhesive

MANUFACTURER'S NAME: SEMITRONE CONCHEM LTD.

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Reviewed & Approved by

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2. HAZARDOUS INGREDIENTS



Classification of the Hazardous chemical

Skin irritation, Category 2

Eye irritation, Category 2A

Skin Sensitisation, Category 1

Short-term (acute) aquatic hazard - Category 3

Long-term (chronic) aquatic hazard - Category 3

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Harmful to aquatic life

Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and
environmental effects: No other
hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Warning

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary instructions on this label)

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in a classification

Other Hazards: No other hazards

This preparation contains low molecular weight epoxy resins. Cross sensitisation to other epoxies is possible. Avoid also exposure to spray mist and vapour.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Mixture identification: MAX 4014 HYBRID PULASTIC

Qty	Name	Ident. Numb.	Classification	Registration Number
≥25 - <50	calcium carbonate	CAS:1317-65-3		
%		EC:215-279-6		
≥5 - <10	bis-[4-(2,3-	CAS:1675-54-3,	Skin Irrit. 2, H315	01-2119456619-26
%	epoxipropoxi)phenyl]propane	25085-99-8	H317 Eye Irrit. 2A, H319 Aquatic	
		EC:216-823-5	Chronic 2, H411	
Index:603-073-				
		00-2	Specific Concentration Limits:	
C ≥ 5%: Skin Irrit. 2 H315				
C ≥ 5%: Eye Irrit. 2A H319				
≥2.5 - <5	2-(2-butoxyethoxy)ethyl acetate	CAS:124-17-4	Aquatic Acute 3, H402	01-2119475110-51-XXXX
%		EC:204-685-9		
≥0.25 -	4-nonylphenol, branched	CAS:84852-15-3	Repr. 2, H361fd; Skin Corr. 1B,	01-2119510715-45-XXXX
<0.49 %		EC:284-325-5	H314; Aquatic Acute 1, H400;	
Index:601-053- Aquatic Chronic 1, H410; Acute				
		00-8	Tox. 4, H302	

4. FIRST-AID MEASURES

Description of necessary first-aid measures In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult

an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Symptoms caused by exposure

Eye irritation

Eye damages

Skin Irritation

Erythema

Medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIREFIGHTING MEASURES

Suitable extinguishing media

None in particular.

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: no data available

Explosive properties: ==

Oxidizing properties: no data available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

HazChem Code/Emergency Action code

N.A.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring

Community Occupational Exposure Limits (OEL)

OEL Country	Occupational Exposure Limit Type
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calcium carbonate OSHA Long Term: 15 mg/m³

CAS: 1317-65-3

OSHA Long Term: 5 mg/m³

National GREECE Long Term: 10 mg/m³

National GREECE Long Term: 5 mg/m³

National BELGIUM Long Term: 10 mg/m³

National CZECH REPUBLIC Long Term: 10 mg/m³

National HUNGARY Long Term: 10 mg/m³

National ESTONIA Long Term: 10 mg/m³

National ESTONIA Long Term: 5 mg/m³

National SLOVAKIA Long Term: 10 mg/m³

National UNITED KINGDOM Long Term: 10 mg/m³; Short Term: 30 mg/m³

National UNITED KINGDOM Long Term: 10 mg/m³; Short Term: 12 mg/m³

National UNITED KINGDOM Long Term: 4 mg/m³; Short Term: 30 mg/m³

National BULGARIA Long Term: 10 mg/m³

National ROMANIA Long Term: 10 mg/m³

National CROATIA Long Term: 4 mg/m³

National CROATIA Long Term: 10 mg/m³

National FRANCE Long Term: 10 mg/m³

2-(2-butoxyethoxy)ethyl National SWEDEN Long Term: 130 mg/m³ - 15 ppm; Short Term: 250 mg/m³ - 30 ppm acetate

CAS: 124-17-4

National SWITZERLAND Long Term: 85 mg/m³ - 10 ppm; Short Term: 127,5 mg/m³ - 15 ppm

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National SWEDEN Long Term: 130 mg/m³ - 15 ppm

National GERMANY Long Term: 67 mg/m³ - 10 ppm

National LITHUANIA Long Term: 130 mg/m³ - 15 ppm; Short Term: 250

mg/m³ - 30 ppm

National SLOVENIA Long Term: 67,5 mg/m³ - 10 ppm; Short Term: 101,2

mg/m³ - 15 ppm

Predicted No Effect Concentration (PNEC) values

2-(2-butoxyethoxy)ethyl Exposure Route: Fresh Water; PNEC Limit: 0,108 mg/l acetate

CAS: 124-17-4

Exposure Route: Marine water; PNEC Limit: 0,011 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 0,8 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 0,08 mg/kg

Exposure Route: Soil; PNEC Limit: 0,29 mg/kg

Exposure Route: Oral; PNEC Limit: 70 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

4-nonylphenol, branched Exposure Route: Fresh Water; PNEC Limit: 0,000614 mg/l

CAS: 84852-15-3

Exposure Route: Marine water; PNEC Limit: 0,000527 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 4,62 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 1,23 mg/kg

Derived No Effect Level (DNEL) values

2-(2-butoxyethoxy)ethyl Exposure Route: Human Dermal; Exposure Frequency: Long Term (repeated)

Acetate Worker Industry: 100 mg/kg; Consumer: 60 mg/kg

CAS: 124-17-4

Exposure Route: Human Oral; Exposure Frequency: Long Term (repeated)

Consumer: 7,9 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 85 mg/m³

4-nonylphenol, branched
CAS: 84852-15-3
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0,5 mg/m³; Consumer: 0,4 mg/m³
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 1 mg/m³; Consumer: 0,8 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 7,5 mg/kg; Consumer: 3,8 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 15 mg/kg; Consumer: 7,6 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 0,08 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 0,4 mg/kg

Appropriate engineering controls

no data available

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Nitrile rubber - NBR: thickness $\geq 0,35$ mm; breakthrough time ≥ 480 min.

Butyl rubber - IIR: thickness $\geq 0,5$ mm; breakthrough time ≥ 480 min.

Fluorinated rubber - FKM: thickness $\geq 0,4$ mm; breakthrough time ≥ 480 min.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to AS/NZS 1715-1716 for

information on selection and use of appropriate respiratory protection equipment.

no data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Appearance: paste

Color: various

Odour: Characteristic

pH: no data available

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (Solid, Gas) no data available

Lower and upper explosion limit/flammability limits: no data available

Vapour pressure: no data available

Vapour density: ==

Relative density: 1.70 g/cm³

Solubility in water: Insoluble

Solubility in oil: soluble

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Kinematic viscosity: no data available

VOC % (Volatile Organic Compound) : 33,7 (A+B) (Rule 1168) g/l

Particle characteristics:

Particle size: no data available

Particle size distribution: no data available
Shape and aspect ratio: no data available
Specific surface area: no data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin irritation, Category 2(H315)

c) serious eye damage/irritation The product is classified: Eye irritation, Category 2A(H319)

d) respiratory or skin sensitisation The product is classified: Skin Sensitisation, Category 1(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

calcium carbonate a) acute toxicity LD50 Oral Rat > 5000 mg/kg

bis-[4-(2,3-

epoxipropoxy)phenyl]

propane

LD50 Oral Rat = 11300 µL/kg

LD50 Skin Rabbit = 20000 mg/kg

2-(2-butoxyethoxy)ethyl) a) acute toxicity LD50 Oral Rat = 11920 mg/kg

Acetate

LD50 Skin Rabbit = 5400 mg/kg

LD50 Skin Rabbit = 14500 mg/kg

LC50 Inhalation Rat = 72500 mg/m³ 4h

LD50 Oral Rat = 6500 mg/kg

i) STOT-repeated NOAEL Oral Rat = 315 mg/kg 90 d exposure

NOAEL Skin Rat = 2400 mg/kg 13 w

NOAEL Inhalation Rat = 118 mg/m³ 90 d

4-nonylphenol, branched a) acute toxicity LD50 Oral Rat = 1246, mg/kg

LD50 Skin Rabbit = 2031, mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Negative

d) respiratory or skinSkin Sensitization Rat Negative sensitisation

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Short-term (acute) aquatic hazard - Category 3(H402), Long-term (chronic) aquatic hazard - Category 3(H412)

a) Aquatic acute toxicity : - Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component Ident. Numb. Ecotox Data

calcium carbonate CAS: 1317-65-3 a) Aquatic acute toxicity : LC50 Fish > 10000 mg/L 96

- EINECS: 215

- 279-6a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 48

a) Aquatic acute toxicity : EC50 Algae > 200 mg/L 72

2-(2-butoxyethoxy)

ethyl acetate CAS: 124-17-4 -

EINECS: 204- 685-9a) Aquatic acute toxicity : EC50 Algae = 1570 mg/L 72h

a) Aquatic acute toxicity : LC50 Fish Brachydaniorerio 50 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 665 mg/L 48h IUCLID

4-nonylphenol, branched CAS: 84852-15-a) Aquatic acute toxicity : LC50 Fish Pimephalespromelas = 0,135

3 - EINECS: mg/L 96h IUCLID

284-325-5 -

INDEX: 601-

053-00-8

a) Aquatic acute toxicity : LC50 Fish Lepomismacrochirus = 0,1351 mg/L 96h

EPA

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 0,14 mg/L 48h IUCLID

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriellasubcapitata 0,36 mg/L 96h EPA

a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriellasubcapitata 0,16 mg/L 72h EPA

a) Aquatic acute toxicity : EC50 Algae Desmodesmussubspicatus = 1,3 mg/L 72h IUCLID

Persistence and degradability

no data available

Bioaccumulative potential

Component Bioaccumulation Test Duration Value

4-nonylphenol, branched Not bioaccumulative BCF – 28 d740

Bioconcentration

Factor

Mobility in soil

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

no data available

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

no data available

UN proper shipping name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

ADG-Subsidiary hazards no data available

ADG-S.P.: no data available

Road and Rail (ADR-RID):

no data available

Air (IATA):

no data available

Sea (IMDG):

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

•3Z

15. REGULATORY INFORMATION

All ingredients are listed on the U.S.EPA TSCA inventory of chemical substances.

16. OTHER INFORMATION

This information is furnished without warranty, representation, inducement or license of any kind; Except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate