# SAFETY DATA SHEET



Bond Elut-AL-N - Bond Elut Jr AL-N - Bond Elut LRC-AL-N - Mega Bond Elut-AL-N

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

This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

**Product name** : Bond Elut-AL-N - Bond Elut Jr AL-N - Bond Elut LRC-AL-N - Mega Bond Elut-AL-N

**EC** number : 215-691-6 **CAS** number : 1344-28-1

Part no. : 12102023, 12102049, 221032B, 12102071, 12166045B, 12162049B, 12113048,

12256050, 12256086, 12256059, 7552201C, 5610-2030

**Chemical formula** : Al<sub>2</sub>O<sub>3</sub>

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

**Identified uses** : Analytical chemistry.

cartridge

12102023 Bond Elut-AL-N, 100mg 1ml, 100/pk 12102049 Bond Elut-AL-N, 500mg 3ml, 50/pk 221032B Bond Elut-Al-N, 500mg 6ml, 1000/pk Bond Elut-Al-N, 50mg 1ml, 100/pk 12102071 Bond Elut JR-AL-N, 1000mg, 100/pk 12166045B Bond Elut JR-AL-N, 500mg, 100/pk 12162049B Bond Elut LRC-AL-N, 500mg, 50/pk 12113048 Mega BE-Al-N, 10gm 60ml, 16/pk 12256050 Mega Bond Elut Al-N, 1gm 6ml, 30/pk 12256086 Mega Bond Elut-AL-N, 20gm 60ml, 16/pk 12256059 Tubes, VersaPlate-Al-N, 100mg, 96/pk 7552201C

5610-2030 Mega Bond Elut Al-N, 2g 12mL, 50/pk

**Uses advised against** : None known.

#### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany

0800 603 1000

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

## 1.4 Emergency telephone number

**Emergency telephone** : CHEMTREC®: +(44)-870-8200418

number (with hours of

operation)

# **SECTION 2: Hazards identification**

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

**Product definition** : Mono-constituent substance (encapsulated in article)

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

Not classified.

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# **SECTION 2: Hazards identification**

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Signal word : No signal word.

**Hazard statements**: No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles

**Special packaging requirements** 

**Tactile warning of** 

danger

: Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB	
Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A	

Other hazards which do

not result in classification

: None known.

# **SECTION 3: Composition/information on ingredients**

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

3.1 Substances : Mono-constituent substance (encapsulated in article)

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
aluminium oxide	EC: 215-691-6 CAS: 1344-28-1	100	Not classified.	-	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### Type

[1] Constituent

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# **SECTION 3: Composition/information on ingredients**

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

Skin contact: Wash contaminated skin with soap and water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: No specific fire or explosion hazard.

**Hazardous combustion** 

products

: Decomposition products may include the following materials:

metal oxide/oxides

#### 5.3 Advice for firefighters

**Special precautions for** 

fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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# **SECTION 5: Firefighting measures**

**Special protective** equipment for firefighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**6.2 Environmental** precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

**Protective measures** Advice on general occupational hygiene : Put on appropriate personal protective equipment (see Section 8).

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage** 

: Do not store above the following temperature: 24°C (75.2°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations

: Industrial applications, Professional applications.

Industrial sector specific : Not available.

solutions

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# **SECTION 8: Exposure controls/personal protection**

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

### 8.1 Control parameters

# **Occupational exposure limits**

Product/ingredient name	Exposure limit values
	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs)  OELV: 4 mg/m³ 8 hours. Form: respirable dust OELV: 10 mg/m³ 8 hours. Form: inhalable dust

#### **Biological exposure indices**

No exposure indices known.

# Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
aluminium oxide		Long term Inhalation	0.75 mg/m <sup>3</sup>	General population	Local
		Long term Inhalation	0.75 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Oral	1.32 mg/kg bw/day	General population	Systemic
		Long term Inhalation	3 mg/m³	Workers	Local
		Long term Inhalation	3 mg/m³	Workers	Systemic

### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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# **SECTION 8: Exposure controls/personal protection**

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Solid. Colour : White. Odour Odourless. **Odour threshold** : Not available. : 2054°C

Melting point/freezing

point

Initial boiling point and

boiling range

: 3000°C

**Flammability** 

: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

**Upper/lower flammability** 

or explosive limits

: Not applicable.

Flash point : Not applicable.

**Auto-ignition** temperature

: 590°C

**Decomposition** temperature

: Not available.

: Not applicable. pH **Viscosity** Not applicable.

Solubility(ies)

Media Result water Insoluble

: 0.00002 g/l [OECD 105] Solubility in water

Partition coefficient: n-

octanol/water

Not available.

Vapour pressure Not applicable. **Evaporation rate** Not available.

: 4 **Relative density** 

4 a/cm<sup>3</sup> Density

: Not applicable. Vapour density : Not available. **Explosive properties Oxidising properties** : Not available.

**Particle characteristics** 

Median particle size : Not available.

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# **SECTION 9: Physical and chemical properties**

#### 9.2 Other information

No additional information.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: No specific data.

10.5 Incompatible materials

: May react or be incompatible with oxidising materials.

Reactive or incompatible with the following materials: acids and alkalis.

halogenated hydrocarbons.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
aluminium oxide	LD50 Oral	Rat	>10000 mg/kg	-

### **Acute toxicity estimates**

N/A

#### **Irritation/Corrosion**

**Respiratory**: May cause respiratory irritation.

**Sensitiser** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

Carcinogenicity

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Not available.

Information on likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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# **SECTION 11: Toxicological information**

### Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Short term exposure**

**Potential immediate** 

: Not available.

effects

Potential delayed

effects

: Not available.

**Long term exposure** 

**Potential immediate** 

effects

: Not available.

Potential delayed

effects

: Not available.

#### Potential chronic health effects

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Adverse symptoms may include the following: pulmonary fibrosis. (dust)

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
aluminium oxide	Acute EC50 114.357 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours

### 12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
aluminium oxide	-	-	Readily

#### 12.3 Bioaccumulative potential

Not available.

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# **SECTION 12: Ecological information**

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Coefficient (Noc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
aluminium oxide	Not applicable (Inorganic)	N/A	N/A	N/A	Not applicable (Inorganic)	N/A	N/A

### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions 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 non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Packaging** 

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-

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•	SECTION 14: Transport information					
	14.5 Environmental hazards	No.	No.	No.		

14.6 Special precautions

for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to IMO instruments

: Not available.

# **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

**Substances of very high concern** 

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No listed substance

Label : Not applicable.

**Other EU regulations** 

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

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# SECTION 15: Regulatory information

China : This material is listed or exempted.

**Eurasian Economic** 

**Union** 

: Russian Federation inventory: This material is listed or exempted.

Japan : Japan inventory (CSCL): This material is listed or exempted.

Japan inventory (ISHL): This material is listed or exempted.

**New Zealand** This material is listed or exempted. : This material is listed or exempted. **Philippines** Republic of Korea : This material is listed or exempted. This material is listed or exempted. **Taiwan Thailand** : This material is listed or exempted. **Turkey** : This material is listed or exempted. **United States** This material is active or exempted. : This material is listed or exempted. **Viet Nam** 

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

Not applicable.

### Full text of classifications [CLP/GHS]

Not applicable.

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**Notice to reader** 

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