Safety Data Sheet prepared to UN GHS Revision 3



1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 04N650A **Revision Date**: 10/10/2014

Product Name: NUCEM MORTAR (Aggregate)

Supercedes Date: New SDS

1.2 Relevant identified uses of the substance or mixture and uses

advised against

Component of multicomponent industrial coatings - Industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer: USL

Kingston House 3 Walton Road Pattinson North Washington Tyne & Wear NE 38 8QA

Regulatory / Technical Information:

+44(0)191 416 1530 www.usluk.com

Datasheet Produced by:Norton, Catherine - info@ usluk.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

2. Hazard Identification

2.1 Classification of the substance or mixture

Serious Eye Damage, category 1 Skin Irritation, category 2 Skin Sensitizer, category 1

22 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

cement, portland, chemicals

HAZARD STATEMENTS

Serious Eye Damage, category 1 Skin Irritation, category 2 Skin Sensitizer, category 1	H318 H315 H317	Causes serious eye damage. Causes skin irritation. May cause an allergic skin reaction.
PRECAUTION PHRASES		
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do so.
		Continue rinsing.
	P332+313	If skin irritation occurs: Get medical advice/attention.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.

23 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT NPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.1 Substances

Hazardous Ingredients

CAS-No.	Chemical Name	<u>%</u>
65997-15-1	cement, portland, chemicals	10-25
37293-22-4	calcium sulpho aluminate	0.1-1.0
13463-43-9	ferrous sulphate	<0.1

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
65997-15-1	GHS05-GHS07	H315-317-318	0
37293-22-4			0
13463-43-9	GHS07	H302-315-319	0

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off with warm water and soap. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. If eye irritation persists, consult a specialist

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

No Information

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if

available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

None known. The product itself does not burn. In the event of fire, wear self-contained breathing apparatus. WaterUse water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Take measures to prevent the build up of electrostatic charge. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours/dust. Avoid contact with skin and eyes. Protect from moisture. Wash thoroughly after handling. Do not taste or swallow. **PROTECTION AND HYGIENE MEASURES:** Wash hands before breaks and at the end of workday. Do not breathe dust When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Exposure to moisture. Avoid moisture.

STORAGE CONDITIONS: Keep tightly closed in a dry and cool place. Keep in a dry place. Keep locked up or in an area accessible only to qualified or authorised persons. Textile

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (UK WELS)

<u>Name</u>	<u>%</u>	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3	OEL Note
cement, portland, chemicals	10-25				10	

calcium sulpho aluminate 0.1-1.0 ferrous sulphate <0.1

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.

Effective dust mask.

EYE PROTECTION: Tightly fitting safety goggles. Safety glasses with side-shields

HAND PROTECTION: Protective glovesLong sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Grey Aggregate

Physical State Solid
Odor None

Odor threshold Not determined

pH 11

Welting point / freezing point (°C)Not determinedBoiling point/range (°C)N.D. - N.D.

Flash Point, (°C) 400

Evaporation rate Not determined Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 20 - 30

limits

Vapour Pressure, mmHg

Vapour density

Not determined

Relative density

Not determined

Solubility in / Miscibility with water Fully Miscible In Water

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

Viscosity

Not determined

Explosive properties

Not determined

Oxidising properties

Not determined

9.2 Other information

VOC Content g/l:

Specific Gravity (g/cm3)

2.650

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Exposure to moisture. Avoid moisture.

10.5 Incompatible materials

Do not store near acids. Keep away from oxidising agents and strongly acid or alkaline materials. Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below.

<u>CAS-No.</u> <u>Chemical Name</u> <u>Oral LD50</u> <u>Dermal LD50</u> <u>Vapor LC50</u>

Data at the substance level is not available.

Additional Information:

No Information

12 Ecological Information

121 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 96hr (fish):No information

12.2 Persistence and degradability:No information

12.3 Bioaccumulative potential:No information

12.4 Mobility in soil:No information

12.5 Results of PBT and vPvB

assessment

The product does not meet the criteria for PBT NPvB in accordance with Annex XIII.

12.6 Other adverse effects: No information

CAS-No.	<u>Chemical Name</u>	EC5048hr	<u>IC5072hr</u>	<u>LC50 96hr</u>
65997-15-1	cement, portland, chemicals	No information	No information	
37293-22-4	calcium sulpho aluminate	No information	No information	No information
13463-43-9	ferrous sulphate	No information	No information	No information

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: In accordance with local and national regulations. If recycling is not practicable, dispose of in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1 UN number

14.2 UN proper shipping name Not regulated for transport according to ADR/RID, IMDG, and IATA

regulations.

Technical name

14.3 Transport hazard class(es)

Subsidiary shipping hazard

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user Not applicable

EmS-No.:

14.7 Transport in bulk according to Annex II

of MARPOL 73/78 and the IBC code

Not applicable

15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number:

Danish MAL Code:

Sweden Product Registration Number:

Norway Product Registration Number:

WGK Class:

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Other Information

Text for GHS Hazard Statements shown in Section 3 describing each ingredient

H302 Harmful if swallowed.H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Reasons for revision

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark ESIS (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy

Annex VI of the EU Council Directive 67/548/EEC

Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation)

EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration
IC50 Half maximal inhibitory concentration
PBT Persistent bioaccumulative toxic chemical
vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

No Information

Safety Data Sheet prepared to UN GHS Revision 3



NewSDS

1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 04N650G L **Revision Date**: 10/10/2014

Supercedes Date:

Product Name: NUCEM MORTAR (Gauging

liquid)

1.2 Relevant identified uses of the

substance or mixture and uses

advised against

Component of multicomponent

industrial coatings - Industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer: USL

Kingston House 3 Walton Road Pattinson North Washington Tyne & Wear NE 38 8QA

Regulatory / Technical Information:

+44(0)191 416 1530 www.usluk.com

Datasheet Produced by:Norton, Catherine - info@ usluk.com

1.4 Emergency telephone number: CHEMTREC +1 703 5273887 (Outside US)

2 Hazard Identification

2.1 Classification of the substance or mixture

23 Other hazards

Not applicable

Results of PBT and vPvB assessment

The product does not meet the criteria for PBT NPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.1 Substances

Hazardous Ingredients

CAS-No. Chemical Name %

<u>CAS-No.</u> <u>GHS Symbols</u> <u>GHS Hazard Statements</u> <u>MFactors</u>

Additional Information:

The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

AFTER INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water, also under the eyelids. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses.

AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin. May be harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Water sprayDry powderAlcohol-resistant foamCarbon dioxide (CO2)High volume water jet. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. None.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /national regulations (see section 13).

6.4 Reference to other sections

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapours or spray mist. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection.

PROTECTION AND HYGIENE WEASURES: Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Direct sources of heat

STORAGE CONDITIONS: Do not freeze. Keep containers tightly closed in a cool, well-ventilated place. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (UK WELS)

Name % LTEL ppm STEL ppm STEL mg/m3 LTEL mg/m3 OEL Note

No hazardous items exist

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In case of insufficient ventilation wear suitable respiratory equipment. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

EYE PROTECTION: Safety glasses Safety glasses with side-shields

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Protective glovesImpervious glovesLong sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: White Liquid

Physical State Liquid
Odor Mild

Odor threshold Not determined

pH Not determined

Melting point / freezing point (°C)Not determined

Boiling point/range (°C) 100 - N.D.

Flash Point, (°C) 400

Evaporation rate As water

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 10 - 20

imits

Vapour Pressure, mmHg As water

Vapour density Not determined

Relative density Not determined

Solubility in / Miscibility with water Fully Miscible In Water

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Not determined

9.2 Other information

VOC Content g/l:

Specific Gravity (g/cm3)

1.050

10. Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Direct sources of heat

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:

Inhalation LC50:

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested. Data on individual components are tabulated below.

<u>CAS-No.</u> <u>Chemical Name</u> <u>Oral LD50</u> <u>Dermal LD50</u> <u>Vapor LC50</u>

Data at the substance level is not available.

Additional Information:

No Information

12 Ecological Information

121 Toxicity:

EC50 48hr (Daphnia):No informationIC50 72hr (Algae):No informationLC50 96hr (fish):No information

12.2 Persistence and degradability:No information

12.3 Bioaccumulative potential:No information

12.4 Mbbility in soil:No information

12.5 Results of PBT and vPvB The product does not meet the criteria for PBT WPvB in accordance with Annex XIII.

assessment

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1 UN number

14.2 UN proper shipping name Not regulated for transport according to ADR/RID, IMDG, and IATA

regulations.

Technical name

14.3 Transport hazard class(es)

Subsidiary shipping hazard

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user Not applicable

EmS-No.:

14.7 Transport in bulk according to Annex II

of MARPOL 73/78 and the IBC code

Not applicable

15. Regulatory Information

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

National Regulations:

Denmark Product Registration Number:

Danish MAL Code:

Sweden Product Registration Number:

Norway Product Registration Number:

WGK Class:

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information

Reasons for revision

This is a new Safety Data Sheet (SDS).

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

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Council Directive 67/548/EEC - Annex I or EU Council Directive 1999/45/EC

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EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"

Acronym & Abbreviation Key:

CLP Classification, Labeling & Packaging Regulation

EC European Commission
EU European Union
US United States

CAS Chemical Abstract Service

EINECS European Inventory of Existing Chemical Substances

REACH Registration, Evaluation, Authorization of Chemicals Regulation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

LTEL Long term exposure limit
STEL Short term exposure limit
OEL Occupational exposure limit

ppm Parts per million

mg/m3 Milligrams per cubic meter TLV Threshold Limit Value

ACGIH American Conference of Governmental Industrial Hygienists

OSHA Occupational Safety & Health Administration

PEL Permissible Exposure Limits
VOC Volatile organic compounds

g/l Grams per liter

mg/kg Milligrams per kilogram

N/A Not applicable LD50 Lethal dose at 50%

LC50 Lethal concentration at 50%

EC50 Half maximal effective concentration
IC50 Half maximal inhibitory concentration
PBT Persistent bioaccumulative toxic chemical
vPvB Very persistent and very bioaccumulative

EEC European Economic Community

ADR International Transport of Dangerous Goods by Road RID International Transport of Dangerous Goods by Rail

UN United Nations

IMDG International Maritime Dangerous Goods Code
IATA International Air Transport Association

MARPOL International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978

IBC International Bulk Container

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

No Information