According to Regulation (EU) No 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name ISONEM LIQUID MARBLE A COMPONENT

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

Identified uses Metallic Effect Floor Coating

1.3. Details of the supplier of the safety data sheet

Supplier ISONEM BOYA VE YALITIM TEKNOLOJILERI INS. SAN. TIC. A.S.
ITOB OSB 10001 Sk. No:20 Tekeli 35470 Menderes / Izmir / TURKEY
Tel : +90 232 799 04 95
Fax : +90 232 437 01 33
E-mail : isonem@isonem.com.tr

1.4. Emergency telephone number

TEL: +90 232 799 04 95

2. SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture.

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

Physical and chemical hazards	Not classified.
Human healt	Skin Irrit. 2- H315; Skin Sensitive. 1-H317; Eye Irrit. 2- H319
Environment	Aquatic Chronic 2- H411

2.2. Label elements

Hazard pictograms :



Signal word **:** Danger

Hazard statements **:**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements **:**

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P305 +P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.

Ingredients **:** Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight _ 700), Glycidyl ether C12-C14 alcohols

2.3. Other hazards

None known.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Mixture.

3.2. Mixtures

Identification	EC No.	Cas No.	Conc. (a/a, %)	Classification (1272/2008 CLP)
Reaction product: Bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight < 700)	500-033-5	25068-38-6	70 - 90	Skin Irrit. 2; H315 Skin Sensitive.1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411
Glycidyl ether C12-C14 alcohols	271-846-8	68609-97-2	10 - 10	Skin Irrit. 2; H315 Skin Sensitive.1; H317

4. SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact : Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

Inhalation : In case of exposure to high concentrations of dust: move the affected person away from the contaminated area and into the fresh air.

Skin contact : Watch out for any remaining product between skin and clothing, watches, shoes, etc.. Wash with soap

Ingestion : Do not induce vomiting; call for medical help immediately. If symptoms persist consult doctor.

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

No specific data.

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

No specific data. Follow doctor's orders.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : CO_2, powder or water spray. Fight larger fires with water spray.

Unsuitable extinguishing media : Water with full jet.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

5.3. Advice for firefighters

Wear self-contained respiratory protective device.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. More information about personal precautions available in section 8.

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are: Warm water, dispose of the material collected according to regulations.

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.

7. SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Always wash hands after handling.

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a well ventilated place. Keep the container away from dampness. Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

Information not available.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No exposure limit value known.

8.2. Exposure controls

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.
Eye/face protection	**:** Safety glasses.
Hand protection	**:** Wear suitable protective gloves in the event of prolonged or repeated skin contact.
Skin and body	**:** Working clothes.
Respiratory protection	**:** Not necessary if room is well-ventilated.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	**:**	Liquid
Colour	**:**	Colored
Odour	**:**	Slight
Odour threshold	**:**	Not available
Solubility	**:**	Not applicable
Boiling point	**:**	Not available
Melting point	**:**	Not available
pH Value (aqueous solution)	**:**	Not applicable
Flash point	**:**	ca. 130 °C
Evaporation rate	**:**	Not available
Flammability of solids and gases	**:**	Not applicable
In flammability limit	**:**	Not applicable
Density	**:**	1,10 ± 0,10
Decomposition temperature	**:**	Not available
Viscosity	**:**	Not available
Partition coefficient: n-octanol/water	**:**	Not applicable
Explosive properties	**:**	Not available
Oxidizing properties	**:**	Not available

9.2. Other information

Information not available.

10. SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon oxides
Burning produces noxious and toxic fumes.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity

Acute oral toxicity – Product : LD50 (Rat): > 5,000 mg/kg

11.1.2. Skin corrosion/irritation

Irritant to skin and mucous membranes.

11.1.3. Serious eye damage / eye irritation

Irritating effect.

11.1.4. Respiratory or skin sensitization

No data known

11.1.5. Germ cell mutagenicity

No data known.

11.1.6. Carcinogenicity

No data known.

11.1.7. Reproductive toxicity

No data known.

11.1.8. Specific target organ toxicity (single exposure)
No data known.

11.1.9. Specific target organ toxicity (repeated exposure)
No data known.

11.1.10. Aspiration hazard
No data known.

11.1.11. Further toxicological information
No data known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability
Not easily biodegradable

12.3. Bio accumulative potential
No data known.

12.4. Mobility in soil
No data known.

12.5. Results of PBT and vPvB assessment
The mixture does not satisfy the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

12.6. Other adverse effects
Information not available.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.

14. SECTION 14: TRANSPORT INFORMATION

14.1. UN Number

UN No. (ADR/RID/ADN)	3082
UN No. (IMDG)	3082
UN. No (ICAO)	3082

14.2. UN proper shipping name
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Various dangerous substances and objects.
ADR Label No	9
IMDG Class	9
ICAO Class	9

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

14.5. Environmental hazards
Environmentally hazardous substance / Marine pollutant
Yes.

14.6. Special precautions for user

EMS	F-A, S-F
Emergency Action Code	•3Z

Hazard No. (ADR) 90
Tunnel Restriction Code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable for product as supplied.

15. SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV): Not applicable
REACH - List of substances subject to authorisation - Future sunset date: Not applicable

15.2. Chemical Safety Assessment
No data available.

16. SECTION 16: OTHER INFORMATION

Full text of abbreviated H statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects**.**
Full text of other abbreviations
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation
Full text of classifications [CLP/GHS]
Not applicable.
Abbreviations and acronyms
ADR : The European Agreement concerning the International Carriage of Dangerous Goods by Road
AND : European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
Cas No : Chemical Abstracts Service
EC No : European Community Number
IATA : International Air Transport Association
ICAO-TI : Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG : International Maritime Dangerous Goods Code
UN : United Nations
MARPOL 73/78: The International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78)
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
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
RRN : REACH Registration Number
vPvB : Very Persistent and Very Bioaccumulative
Sources of key data
Literature data and/or investigation reports are available through the manufacturer.
Note for users
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper us.

According to Regulation (EU) No 2015/830

17. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

17.1. Product identifier

Product name ISONEM LIQUID MARBLE B COMPONENT

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

Identified uses Metallic Effect Floor Coating

17.3. Details of the supplier of the safety data sheet

Supplier ISONEM BOYA VE YALITIM TEKNOLOJILERI INS. SAN. TIC. A.S.
ITOB OSB 10001 Sk. No:20 Tekeli 35470 Menderes / Izmir / TURKEY
Tel : +90 232 799 04 95
Fax : +90 232 437 01 33
e-mail : isonem@isonem.com.tr

17.4. Emergency telephone number

TEL: +90 232 799 04 95

18. SECTION 2: HAZARDS IDENTIFICATION

18.1. Classification of the substance or mixture

Mixture.

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

Physical and chemical hazards	Not classified.
Human healt	Acute Tox. 4-H302; Acute Tox. 4-H312; Skin Corr. 1B-H314; Skin Sens. 1-H317; Eye Dam.1-H318; Acute Tox. 4-H332
Environment	Aquatic Chronic 2- H412

18.2. Label elements

Hazard pictograms :



Signal word **:** Danger

Hazard statements **:**

H302+H312	Harmful if swallowed or in contact with skin.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements **:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/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.
P310	Immediately call a POISON CENTER/doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Ingredients **:** 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Benzyl alcohol, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer.

18.3. Other hazards

None known.

19. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

19.1. Substances

Mixture.

19.2. Mixtures

Identification	EC No.	Cas No.	Conc. (a/a, %)	Classification (1272/2008 CLP)
3-aminomethyl-3,5, 5-trimethylcyclohexylamine	220-666-8	2855-13-2	< 50	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Benzyl alcohol	202-859-9	100-51-6	< 50	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319

20. SECTION 4: First aid measures

20.1. Description of first aid measures

Eye contact : Wash immediately with plenty of water at least 15 minutes. Seek medical advice.
Inhalation : Move to fresh air. If breathing is irregular, seek medical advice.
Skin contact : Wash immediately with plenty of water. Remove contaminated clothing.
Ingestion : Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No specific data.

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

No specific data. Follow doctor's orders.

21. SECTION 5: Firefighting measures

21.1. Extinguishing media

Suitable extinguishing media : CO2, powder or water spray. Fight larger fires with water spray.
Unsuitable extinguishing media : Water with full jet

21.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

21.3. Advice for firefighters

Wear self-contained respiratory protective device.

22. SECTION 6: Accidental release measures

22.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. More information about personal precautions available in section 8.

22.2. Environmental precautions

Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

22.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

22.4. Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

23. SECTION 7: HANDLING AND STORAGE

23.1. Precautions for safe handling

Store in closed, labelled containers.

23.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Protect from heat. Protect against electrostatic charges.

23.3. Specific end use(s)

Information not available.

24. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

24.1. Control parameters

No exposure limit value known.

24.2. Exposure controls

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.

Eye/face protection : Avoid direct contact with eyes and skin. Wear protective gogglesç

Hand protection : Use protective gloves

Skin and body : Working clothes.

Respiratory protection : No special protection is required.

25. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

25.1. Information on basic physical and chemical properties

Appearance	:	Liquid
Colour	:	Transparent
Odour	:	Characteristic
Odour threshold	:	Not available
Solubility	:	Not applicable
Boiling point	:	Not available
Melting point	:	Not available
pH Value	:	Not applicable
Flash point	:	> 100°C
Evaporation rate	:	Not available
Flammability of solids and gases	:	Not applicable
In flammability limit	:	Not applicable
Density	:	1.00 ± 0.10
Decomposition temperature	:	Not available
Viscosity	:	Not applicable
Partition coefficient: n-octanol/water	:	Not applicable
Explosive properties	:	Not available
Oxidizing properties	:	Not available

25.2. Other information

Information not available.

26. SECTION 10: STABILITY AND REACTIVITY

26.1. Reactivity

No further relevant information available.

26.2. Chemical stability

The product is stable in normal conditions of use and storage.

26.3. Possibility of hazardous reactions

Reacts with strong acids and oxidising agents.

26.4. Conditions to avoid

No further relevant information available.

26.5. Incompatible materials

No further relevant information available.

26.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide

27. SECTION 11: TOXICOLOGICAL INFORMATION

27.1. Information on toxicological effects

27.1.1. Acute toxicity

ATE_{mix}, oral	300-2000 mg / kg
ATE_{mix}, dermal	1000-2000 mg / kg
ATE_{mix}, inhalation	10-20 mg / L (vapor)

Benzyl alcohol

LD50, Dermal, rabbit 2000 mg / kg

LD50, Oral, Rat 1230 mg / kg

27.1.2. Skin corrosion/irritation
It has a detrimental effect on the skin and mucous membranes.

27.1.3. Serious eye damage / eye irritation
It has a strong corrosive effect.

27.1.4. Respiratory or skin sensitization
May cause sensitization by skin contact.

27.1.5. Germ cell mutagenicity
No data known.

27.1.6. Carcinogenicity
No data known.

27.1.7. Reproductive toxicity
Based on available data, the classification criteria are not met.

27.1.8. Specific target organ toxicity (single exposure)
Based on available data, the classification criteria are not met.

27.1.9. Specific target organ toxicity (repeated exposure)
Based on available data, the classification criteria are not met.

27.1.10. Aspiration hazard
Based on available data, the classification criteria are not met.

27.1.11. Further toxicological information
No data known.

28. SECTION 12: ECOLOGICAL INFORMATION

28.1. Toxicity
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

28.2. Persistence and degradability
It is not easily biodegradable.

28.3. Bio accumulative potential
Information not available.

28.4. Mobility in soil
Information not available.

28.5. Results of PBT and vPvB assessment
It does not contain PBT and vPvB features.

28.6. Other adverse effects
Information not available.

29. SECTION 13: DISPOSAL CONSIDERATIONS

29.1. Waste treatment methods
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

30. SECTION 14: TRANSPORT INFORMATION

30.1. Number

UN No. (ADR/RID/ADN)	2735
UN No. (IMDG)	2735
UN. No (ICAO)	2735

30.2. UN proper shipping name
AMINES, LIQUID, CORROSIVE, N.O.S., Mixture

30.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No	8
IMDG Class	8
ICAO Class	8

Transport Labels



30.4. Packing group

ADR/RID/ADN Packing group	III

IMDG Packing group	III
ICAO Packing group	III

30.5. Environmental hazards

Environmentally hazardous substance / Marine pollutant

Yes.

30.6. Special precautions for user

Limited Quantity	5 L
Exceptional Quantity	E1
EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	80
Tunnel Restriction Code	(E)

30.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable for product as supplied.

31. SECTION 15: REGULATORY INFORMATION

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

The product doesn't need to be classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 [CLP].

31.2. Chemical Safety Assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

32. SECTION 16: OTHER INFORMATION

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Abbreviations and acronyms

ADR : The European Agreement concerning the International Carriage of Dangerous Goods by Road
AND : European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
Cas No : Chemical Abstracts Service
EC No : European Community Number
IATA : International Air Transport Association
ICAO-TI : Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG : International Maritime Dangerous Goods Code
UN : United Nations
MARPOL 73/78: The International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78)
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
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
RRN : REACH Registration Number
vPvB : Very Persistent and Very Bioaccumulative

Sources of key data: Literature data and/or investigation reports are available through the manufacturer.

Note for users

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper us.

History

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