

SAFETY DATA SHEET
Restol End Seal (Miscellaneous Colours)

According to Regulation (EU) No 2015/830

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

1.1. Product identifier

Product name Restol End Seal (Miscellaneous Colours)

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

Identified uses Exterior softwoods to be painted above ground level

1.3. Details of the supplier of the safety data sheet

Supplier Hemel Emprenye Sanayi ve Tic.A.Ş.
İ.D.O.S.B. Vakum Cd. No:25 B-1 Özel Parsel
Tuzla/İstanbul
E-mail: hakan.milli@hemel.com.tr
Telefon: 444 98 48
Fax: (0216) 394 83 10

Contact person Hakan Milli - General Manager Asst. (Production)

1.4. Emergency telephone number

Hemel: 444 98 48

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards Not classified.
Human health Not classified.
Environment Not classified.

2.2. Label elements

Label in Accordance With (EC) No. 1272/2008

Signal Word None

Hazard Statements
EUH208

Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol, 3-iodo-2-propynyl butylcarbamate
Reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Precautionary Statements

Not classified as hazardous.

2.3. Other hazards

This product contains PBT and vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Name	EC No.	CAS No.	Content	Classification (EC 1272/2008)	Notes
Dipropylene glycol n-butylether	249-951-5	29911-28-2	1-5%	---	---
2,4,7,9-tetramethyldec-5-yne-4,7-diol	204-809-1	126-86-3	<1%	Skin Sens. 1 - H317 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	---

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3-iodo-2-propynyl butylcarbamate	259-627-5	55406-53-6	<0,25%	Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Acute Tox. 3 - H331 STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	---
Dipropylene glycol monomethylether	252-104-2	34590-94-8	<0,1 %	---	---
Decamethylcyclopentasiloxane	208-764-9	541-02-6	<0,1 %	---	PBT, vPvB
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	<0,1 %	---	PBT, vPvB
Octamethylcyclotetrasiloxane	209-136-7	556-67-2	<0,1 %	Flam. Liq. 3 - H226 Repr. 2 - H361f Aquatic Chronic 4 - H413	PBT, vPvB
Reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	-	55965-84-9	<0.0015 %	Acute Tox. 3 - H301 Acute Tox. 2 - H310 Acute Tox. 2 - H330 Skin Corr. 1C - H314 Skin Sens. 1A - H317 Aquatic Acute 1 - H400 (M=100) Aquatic Chronic 1 - H410 (M=100)	---

Name	Specific Concentration Limits
Reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Skin Corr. 1C - H314: C ≥ 0,6 % Skin Irrit. 2 - H315: 0,06 % ≤ C < 0,6 % Skin Sens. 1A - H317: C ≥ 0,0015 % Eye Irrit. 2 - H319: 0,06 % ≤ C < 0,6 %

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition Comments

- The data shown are in accordance with the latest EC Directives.
- See section 8 for occupational exposure limits.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Get medical attention if any discomfort continues.

Ingestion

Do not induce vomiting and do not give anything by mouth to an unconscious person. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing. Get medical attention if any discomfort occurs after washing.

Eye contact

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately.

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

No specific effect is noted

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

No specific treatment is noted. Treat Symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Use proper extinguishing media for the environment.

Unsuitable extinguishing media: No data available.

5.2. Special hazards arising from the substance or mixture

Danger of fire or explosion

Product is not flammable.

Specific hazards

In case of fire, hazardous gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

If it can be done without any safety risk, remove containers from the area.

Avoid contaminating sewers and waterways with firefighting water

Remove unprotected people and evacuate the area.

Fire residues and contaminated extinguishing water must be discharged according to regulations.

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Face mask, protective gloves and safety helmet.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with eyes and skin. Provide adequate ventilation.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Stop leaking if it can be done without any safety risk. Collect and dispose according to regulations. Wash the spillage area with a lot of water.

6.4. Reference to other sections

For personal protection, see section 8.

See section 11 for additional information on health hazards.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow producer's recommendation. Avoid contact with skin and eyes. Observe good chemical hygiene practices. Wash hands and contaminated places before leaving the work area. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original package in a dry and cool place. Protect from direct sunlight. Keep away from food, drink and animal feeding stuffs. Provide adequate ventilation.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Name	TWA (8 h)		STEL (15 min)		Notes
Dipropylene glycol n-butylether	10 mg/m ³		--	--	--
Dipropylene glycol monomethylether	50 ppm	308 mg/m ³	--	--	Skin

8.2. Exposure controls

Protective equipment



Process conditions

Provide eyewash, quick drench.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust.

Respiratory equipment

If a risk assessment indicates that it is necessary, use an air cleaner or a properly supplied air-supplied breathing apparatus that has been installed in accordance with an approved standard.

Hand protection

Use proper protective gloves when there is a risk of skin contact. The most suitable glove must be chosen in consultation with the glove supplier, who can inform about the breakthrough time of the glove material. Wash with soap and water before removing the gloves.

Eye protection

Wear dust resistant safety goggles where there is danger of eye contact.

Hygiene measures

DO NOT SMOKE IN WORKED PLACES!

Wash hands before each shift and before eating, smoking and before going to the toilet.

Remove all contaminated clothing immediately. In case of contact of the skin, wash immediately with soap and water.

Use a suitable skin cream to prevent the skin from drying out.

Do not eat, drink or smoke during use.

Skin protection

Wear protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	No data available.
Colour	Miscellaneous Colours.
Odour	No data available.
Odour threshold	No data available.
pH value - dense solution	No data available.
pH value - 1% solution	No data available.
Solubility	No data available.
Initial boiling point and boiling range	No data available.
Melting Point	No data available.

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Flash Point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/ Lower explosion limit	No data available.
Auto-Ignition Temperature	No data available.
Vapour pressure	No data available.
Vapour density	No data available.
Relative Density	No data available.
Viscosity	30 sec (DIN 6, 20 oC)
Vapour pressure @ 20 ° C	No data available.
Decomposition temperature	No data available.
Partition Coefficient (N-Octanol/Water)	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.

9.2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal temperature conditions and recommended use.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Not expected under normal conditions.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

In case of fire hazardous gases or vapors may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity- product

ATE, oral >2000 mg/kg
ATE, dermal >2000 mg/kg
ATE, inhalation >20 mg/l/ 4 h

Acute toxicity - 2,4,7,9-tetramethyldec-5-yne-4,7-diol

LD50, oral, rat > 5000 mg/kg
LD50, dermal, rabbit >2000 mg/kg

Dipropylene glycol monomethylether

LD50, oral, rat > 4000 mg/kg OECD 401

Serious eye damage/irritation

Based on available data the classification criteria are not met.

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

Dipropylene glycol monomethylether

Doesn't cause skin irritation. Tavşan OECD 404

Respiratory or skin sensitisation:

May cause allergic skin reactions for sensitive people.

Carcinogenicity

Based on available data the classification criteria are not met.

STOT-single exposure

Based on available data the classification criteria are not met.

STOT-repeated exposure

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Reproductive Toxicity

Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

It is not expected to be hazardous for aquatic environment.

2,4,7,9-tetramethyldec-5-yne-4,7-diol

EC 50 (24 h)	91 mg/l (daphnia magna)
EC 50 (72 h)	15 mg/l (Selenastrum capricornutum)
EC 50 (30min)	ca. 630 mg/l (Activated Sludge)
LC 50 (96 h)	36 mg/l (Pimephales promelas)
LC 50 (96 h)	42 mg/l (Cyprinus caprio)

Dipropylene glycol monomethylether

NOEC, 22d >= 0,5 mg/l Daphnia magna OECD 211

12.2. Persistence and degradability

No data available.

2,4,7,9-tetramethyldec-5-yne-4,7-diol

OECD 302B <10 % (/)

Dipropylene glycol monomethylether

Readily biodegradable. OECD 301F

12.3. Bioaccumulative potential

No data available.

2,4,7,9-tetramethyldec-5-yne-4,7-diol

BCF <24 (/)

Dipropylene glycol monomethylether

Log Pow: 0,004 OECD 107

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Decamethylcyclotetrasiloxane, Dodecamethylcyclotetrasiloxane and Octamethylcyclotetrasiloxane substance are classified as PBT and vPvB.

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12.6. Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Discharge empty packages, waste and waste in accordance with local regulations.
The authorities will be informed about all major spills.

SECTION 14: TRANSPORT INFORMATION

General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not available.

14.2. UN proper shipping name

Not available.

14.3. Transport hazard class(es)

Not available.

14.4. Packing group

Not available.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

Not available.

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

Not available.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Highly Flammable Liquid Regulations 1972.

Guidance Notes

Workplace Exposure Limits EH40.
CHIP for everyone HSG (108).

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. System of specific information relating to Dangerous Preparations. 2001/58/EC.

Substances in the SVHC list

Substance name	CAS No	Input number
Decamethylcyclopentasiloxane	541-02-6	194
Dodecamethylcyclohexasiloxane	540-97-6	192
Octamethylcyclotetrasiloxane	556-67-2	189

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement on International Carriage of Dangerous Goods by Road.
ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement on International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
TWA: Time weighted average
STEL: Short Term Exposure Limit
ATE: Estimated value of acute toxicity
EC No: European Community number
CAS: Chemical Theory Service.
LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
LC50: Substance concentration causing 50% (half) death in the test animals group.
EC50: Effective Concentration of the substance causing the maximum of 50%.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Permanent, Very Bioaccumulative.
SEA: Classification, labeling, packaging regulation
DNEL: Derivative Inactive Level
PNEC: Estimated Unaffected Concentration
BHOT: Specific Target Organ Toxicity

Hazard Statements In Full

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Information Sources

This SDS is prepared based on the information received from the product owner.
ECHA – www.echa.europa.eu

Revision Comments

This is the first issue.

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Issued Note

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