

Amroy Europe Oy

HYBTONITE® Pastes

RESIN SYSTEM

**HYBTONITE® CNT Paste**
**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY**

Product name: Name of Substance HYBTONITE® CNT Paste  
 Product type: Additives for plastic and rubber  
 Supplier: Amroy Europe Oy VAT No. FI19869654  
 P. O. Box 144  
 FI – 15101 Lahti, FINLAND www.amroy.fi

Contact numbers/Emergency: Tel. +358 400 815 266  
 Fax. +358 20 711 8609 (production)

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Preparation description: Reacted CNTs in liquid paste  
 Labelling: Xi, N; R36/38, R43, R51/53 May cause sensitization at continuous skin contact.

Dangerous components/constituents  
 IMO 9, UN 3082

CAS Number:

68954-72-3	Aliphatic carbon monomer residues	50 – 70 %
25068-38-6	Bisphenol A reaction product (epoxy resin)	10 – 40 %
	Xi, N; R 36/38, R43, R51/53	
100-51-6	Benzylalcohol monomer	5 – 15 %
7440-48-4	Cobalt	0 – 0,1 %
7782-42-5	Synthetic Graphite	0 – 5 %

**3. HAZARDS IDENTIFICATION**

**Xi, N** **Irritant, toxic to aquatic environment**

R36/38 Irritating to eyes and skin.  
 R43 May cause sensitization by skin contact.  
 R51/53 Toxic to aquatic organism. May cause long term adverse effects in the aquatic environment.

Ventilate properly when heated. Prevent direct skin contact.

**4. FIRST AID MEASURES**

Symptoms and effects: Irritation of the skin and eyes.  
 First Aid:  
 – inhalation Fresh air and seek medical help if needed. No specific measures.  
 – skin Do not delay. Remove contaminated clothing. Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.  
 – eye Do not delay. Flush eye with a lot of water for at least 15 minutes. If persistent irritation occurs, obtain medical attention immediately.  
 – ingestion Do not induce vomiting. In the unlikely event of ingestion and if symptoms occur, obtain medical attention immediately.  
 Advice to Physicians: Treat like oil. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed.

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**5. FIRE FIGHTING MEASURES**

Special hazards:	Not classified as flammable, but will burn. Carbon monoxide may be involved incomplete combustion occurs. Ventilate properly when heated.
Extinguishing media:	
– small fires	Dry chemical powder, carbondioxide foam, water spray or fog, sand or earth.
– large fires	Foam, water spray or fog.
Unsuitable extinguishing media:	Water in a jet.
Protective equipment:	Full protective clothing and self contained breathing apparatus.
Other information:	Keep adjacent containers cool by spraying with water.

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:	Avoid contact with skin, eyes and clothing
Personal protection:	Wear protective clothing specified for normal operations (see section 8).
Environmental precautions:	Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. If materials enters drains it should be pumped out into a open vessel. Emergence services may need to be called to assist in this operation.
Clean-up methods:	
– small spillage	Absorb or contain liquid with sand, earth or spill control material. Shovel material to labelled sealable container for safe disposal.
– large spillage	Transfer to a labelled container for product recovery or safe disposal. Otherwise treat as for small spillage.

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**7. HANDLING AND STORAGE**

Handling:	Avoid contact with skin, eyes and clothing
Storage:	Keep container tightly closed and dry. Palletised loads should be stacked to a maximum of 4 high.
Storage temperatures:	Recommended at 0 °C – 50 °C temperatures.

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**8. EXPOSURE CONTROLS / personal protection**

Occupational exposure standards:	None established.
Respiratory protection:	Not normally required. In a confined space wear a half mask respirator with an organic vapour cartridge and a build-in particular filter NPF 20 (gas only). If product is applied by spraying, wear a self contained breathing apparatus.
Hand protection:	Nitrile rubber gloves or butyl rubber gloves, gauntlet type.
Eye protection:	Monogoggles
Body protection:	Standard issue work clothes, safety boots.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	High viscous liquid
Colour:	black
Odour:	Slight odour but strong when heated
Density:	800 – 1000 kg/m <sup>3</sup> at 25 °C (typical)
Dynamic viscosity:	100 – 400 Pa·s at 25 °C
Flash point:	Over 100 °C
Solubility in water:	Negligible/minimal
N-octanol/ water partition coefficient	Data not available

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**10. STABILITY / REACTIVITY**

Stability: Stable under normal use conditions.  
Conditions to avoid: Ventilate properly when heated.  
Materials to avoid: –

Hazardous decomposition products:  
Carbon monoxide when burned with lack of air.

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**11. TOXICOLOGICAL INFORMATION**

Acute toxicity  
– oral: LD50 > 5000 mg/kg (rat)

May irritate eyes and skin. May cause sensitization at long term skin contact.

Eye irritation: Irritant.  
Skin irritation: Irritant.  
Skin sensitisation: Slight sensitization is possible in direct continuous skin contact.  
Carcinogenicity: A recent review of the available data by the International Agency for Research on Cancer (IARC), has concluded that DGEHPA is not classifiable as to its carcinogenicity.

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**12. ECOLOGICAL INFORMATION**

Basis for assessment: Information given based on data on the components and the ecotoxicology of similar products.

Mobility: Sinks in water.  
Persistence/degradability: Not readily biodegradable.  
Bioaccumulation: Has the potential to bioaccumulate.  
Acute toxicity – fish: Toxic,  $1 < LC50 \leq 10$  mg/l.

Sewage treatment: Toxic,  $EC50 > 1 - 10$  mg/l, to organisms in sewage treatments plants.  
Toxic to aquatic organisms.

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**13. DISPOSAL CONSIDERATIONS**

Precautions: See section 8. Refer to section 7 before handling the product or containers.

Waste disposal: Recycling whenever possible. Otherwise incineration or dispose to licensed contractor. Can be burned at appropriate controlled facilities.

Product disposal: Drain container thoroughly. Rinse three times with suitable solvent. Treat rinses as for product disposal. After Draining, vent in a safe place away from sparks and re. Send to drum recovered or metal reclaimed.

Local legislation: Control of Pollution Act 1974.  
Control of Pollution (Special waste) Regulations 1980.  
Environmental Protection Act 1990.

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**14. TRANSPORT INFORMATION**

## Classification / ADR / RID

Name	Environmentally hazardous liquid substance N.O.S (Epoxy resin)
Classification	9
UN Number	3082
Packaging group	3
Classification	Xi, N

## IMDG / Sea transport

Name	Environmentally hazardous liquid substance N.O.S (Epoxy resin)
Classification	9
UN Number	3082
Packaging group	3
Classification	Xi, N

## IATA / Air transport

Name	Environmentally hazardous liquid substance N.O.S (Epoxy resin)
Classification	9
UN Number	3082
Packaging group	3
Classification	Xi, N

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**15. REGULATORY INFORMATION**

Label name	Environmentally hazardous liquid substance N.O.S (Epoxy Resin).
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Classification & Labelling:	Xi, N
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Risk phrases:	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse affects in the aquatic environment.
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Safety phrases:	S24 Avoid contact with skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of soap and water. S37/39 Wear suitable gloves and eye/face protection. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
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**16. OTHER INFORMATION**

Uses and restrictions:	An additive for rubber and plastics
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MSDS distribution:	This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.
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**DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as a guarantee of any specific property of the product.**

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Homepage

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