

SAFETY DATA SHEET

Manufacturer/Distributor WESTERN ENVIRONMENTAL LTD
BRITONWOOD TRADING ESTATE
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Version nr: 4

1. IDENTIFICATION

Trade name: **FLOTEK 305**

Generic Name: **Industrial water treatment chemical**

Product type/area of use: **Closed system treatment for low to medium pressure hot water systems.**

2. HAZARDS IDENTIFICATIONS

Inhalation:

Not applicable

Eye Contact:

Alkaline – Causes severe injuries in case of contact with eyes.

Skin Contact:

Alkaline – Likely to cause severe irritation and possibly blistering.

Ingestion:

Alkaline – Will cause stomach upset and burns to the gastrointestinal tract.

3. INFORMATION ON COMPOSITION

Substances which give the product

<u>its Health-risk properties</u>	<u>CAS-no</u>	<u>Contents %</u>	<u>Remarks</u>
Tannin	N/A	5-20	
Sodium Hydroxide	1310-73-2	15-30	
Tolytriazole	29385-43-1	1-5	
Polyacrylate	9003-04-7	1-5	

Remarks

4. FIRST-AID MEASURES

Inhalation: May cause irritation of airways. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.

Eye contact: Wash immediately with plenty of water for at least ten minutes. Obtain medical attention.

Skin Contact: Wash immediately with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting. If patient is conscious give water to drink. If patient feels unwell seek medical attention.

Information to Doctor: Alkaline solution

5. FIRE-FIGHTING MEASURES

Fire and Explosion Hazards: None

Precautions: Wear protective clothing. Self contained breathing apparatus.

Extinguishing media: Use extinguisher suitable to cause of fire.

Not suitable extinguishing media: None

6. ACCIDENTAL RELEASE MEASURES

Safety precautions –Wear appropriate PPE- See section 8.

Environmental Precautions-Adsorb by inert material for landfill disposal and wash affected area well with water, flushing to drain.

7. HANDLING AND STORAGE

Handling: Keep drums tightly closed when not in use.

Storage: Store indoors, avoid freezing conditions. Keep in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: 2mg/m³ STEL Type OES

Personal protection: **Type approved RPE for mists if OES is likely to be exceeded.**
Wear gloves, goggles and suitable protective clothing.

Hygiene measures: Always wash thoroughly after handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: **Dark red/brown liquid.**

Boiling point [°F]: **100°C**

Density [kg/m³]: **1.16-1.24**

Flashpoint[°C] TCC:

Vapor pressure [mm Hg]:

Pour point [°C]:

Vapor density [air=1]:

Auto-ignition temp [°C]:

Soluble in organic solvent:

Expl.omr. [vol%]

Solubility in water [w-%]: **100%**

pH [concentrate]: **12-13**

pH [10 % ig solution in
distilled water]:

Rel. evaporation
rate:

Ether = 1:

Butylacetate = 100:

Viscosity [cSt]:

Remarks

10. STABILITY AND REACTIVITY

Stability: **Shelf life 12 months, but it will slowly react with oxygen if left open to the atmosphere.**

Avoid blending with: **Strong acids, Aluminium, Zinc, Chlorinated hydrocarbons.**

Dangerous products

of degradation: **Evolves hydrogen in contact with Aluminium and Zinc.**

Dangerous products **None**

of combustion:

11. TOXICOLOGICAL INFORMATION

Analysis data: All ingredients are considered non-toxic but caustic soda is present.

Remarks:

12. ECOLOGICAL INFORMATION

Analysis data: All ingredients are biodegradable or rapidly neutralised in the environment.

Remarks: Concentration sufficient to render effluent alkaline may cause damage to effluent organisms. Concentrations greater than 10p.p.m. or a pH value above 10.5 may be fatal to fish and other aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Substance: Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container: As substance.

14. TRANSPORT INFORMATION

UN no: 1760 N.O.S. Packaging gr. II

ADR Class: 8

IMDG class: 8 H.I. No.: 80

DGR:

Primary Hazard: Corrosive

Others:

15. REGULATORY INFORMATION

Labelling category [-s]: Ref. CHIP 2002

Symbol [-er]: CORROSIVE

R-phrase [-s]: 34 – causes burns

S-phrase [-s]: 26 – in case of contact with eyes, rinse immediately with plenty of water and seek medical advice, 28 – after contact with skin, was immediately with plenty of water, 36/37/39 – wear suitable protective clothing, gloves and eye/face protection, 45 – in case of accident or if you feel unwell, seek medical advice immediately (show this information where possible)

Contains Sodium Hydroxide.

16. OTHER INFORMATION

Low toxicity product suitable for use in boilers and low pressure heating systems.

LEGAL DISCLAIMER

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

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17. Prepared by Dr J Tames