

1 IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : Star brite Diesel Water Absorber - 846XX
 Application : Boat maintenance. Fuel additive.

Manufacturer : Star brite Distributing, Inc.
 Address : 4041 S. W. 47 Avenue
 Ft. Lauderdale, FL 33314
 Telephone : +001- 954-587-6280

Distributor : Star brite Europe Inc.
 Contact : Jean Paul Kitzinger

Telephone : +33- 472- 57 01 33
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EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:



: 001-703-527-3887 - Chemtrec

2 COMPOSITION / INFORMATION ON CONSTITUENTS
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Product description : Preparation.

Information on hazardous substances:

EC-name	Concentration (w/w) (%)	CAS-number	EC-number	Symbols	R-phrases
Methanol	> 75	67-56-1	200-659-6	F, T	11-23/24/25-39/23/24/25

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

3 HAZARD INFORMATION

Classification : Highly flammable and toxic.

Human health hazards : Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Physical/chemical hazards : Highly flammable. Keep away from sources of ignition - No smoking.

Environmental hazards : Not classified as dangerous on the basis of statutory EC Directives. See also section 12.

Other information : Keep locked up and out of reach of children. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of accident by inhalation: remove casualty to fresh air and keep at rest.

4 FIRST AID MEASURES

Effects and symptoms

- Inhalation : May cause headache, dizziness and a feeling of sickness.
- Skin contact : May cause dry skin and redness.
- Eye contact : May cause redness and pain. Blurred vision.
- Ingestion : May cause a feeling of sickness, vomiting, stomachache and diarrhoea.

First aid measures

- Inhalation : Move victim into fresh air. Seek medical advice immediately.
- Skin contact : Immediately take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation persists.
- Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor.
- Ingestion : Do not induce vomiting. Consult a doctor immediately.

5 FIRE FIGHTING MEASURES

Extinguishing media
 Suitable : Alcohol resistant foam, water fog or dry chemical.
 Not suitable : Water jet
 Special exposure hazards : None known
 Hazardous thermal (de)composition products : Carbon monoxide may be evolved if incomplete combustion occurs.
 Special protective equipment for fire-fighters : Use adequate respiratory equipment in case of insufficient ventilation.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with nonslip soles. Keep away from sources of ignition. See also section 8.
 Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.
 Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water and soap.

7 HANDLING AND STORAGE

Handling : Handle in accordance with good occupational hygiene and safety practices in well ventilated areas. Keep away from sources of ignition. No smoking. Avoid splashing. Wear industrial clothing. Avoid contact with eyes and skin. Do not inhale vapours.
 Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place, separated from oxidizing substances. Protect from sunlight. Keep away from food, drink and animal feeding stuffs.
 Recommended packaging : Keep only in the original container.
 Use : Use only as directed.

8 EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals. See Directive 2004/37/EG on the protection of workers from the risks related to exposure to carcinogens or mutagens at work.
 Hygienic measures : Do not eat, drink or smoke during use.
 Occupational exposure limits : Occupational exposure limits have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name		EC	UK		
Methanol	TWA 8 hour	-	266		
	STEL 15 min	-	333		

Personal protective equipment:
 The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear protective industrial clothing. See also under additional information.
 Respiratory protection : Take care of sufficient ventilation. Wear a gas filter type A (brown), class I or higher on e.g. a facemask in accordance with EN 140, in case of large scale exposure.
 Hand protection : Wear appropriate safety gloves. See also under additional information.
 Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

Additional information:



MATERIAL SAFETY DATA SHEET

Protective clothing : Wear nitril protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345.
 Safety gloves : Wear nitril gloves in case of frequent or prolonged use and in case of large scale exposure. Indication of permeation breakthrough time: 15 min. (methanol)

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
 Colour : Colourless
 Odour : Methanol
 pH : Not applicable
 Solubility in water : Soluble
 in fat : Not known
 Partition coefficient (n-octanol/water) : -0.7
 Flash point : 11°C (PMcc)
 Auto ignition temperature : 382°C
 Boiling point/ boiling range : 65°C
 Melting point/ melting range : -98°C
 Explosive properties : 5.5% Lower explosion limit
 44% Upper explosion limit
 Oxidizing properties : Not applicable
 Decomposition temperature : Not applicable
 Viscosity (20°C) : 0.55 cP
 Vapour pressure (20°C) : 127 hPa
 Relative density (20°C) : 0.8 kg/l
 Evaporation rate : Not known (n-butyl acetate = 1)

10 STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
 Conditions to avoid : See section 7.
 Materials to avoid : Keep away from oxidizing substances.
 Hazardous decomposition products : None known.

11 TOXICOLOGICAL INFORMATION

No toxicological research has been carried out on this product.

Inhalation : Irritation of respiratory airways possible when vapour concentrations exceed threshold limits. Vapours may cause headache, drowsiness and dizziness.
 Skin contact : Prolonged contact may dry out and degrease the skin. Easily absorbed through the skin.
 Eye contact : Slight irritation possible. Blurred vision.
 Ingestion : Ingestion may cause vomiting, nausea and diarrhoea. May affect eyesight. In severe cases it may cause blindness or death.

Toxicological information:

Chemical name	Toxicity (mg/kg or mg/m3)	Irritation	Sensitization
Methanol	LD ₅₀ : > 5628 (rat, oral) LD ₅₀ : > 15800 (rabbit, dermal) LC ₅₀ : > 8500 (rat, inh. 4 hr.)	Moderate irritant (rabbit, eyes) Moderate irritant (rabbit, skin)	Not sensitizing

Chemical name: Methanol	In humans, over-exposure to methanol can result in blindness and metabolic acidosis. There is a marked difference in acute oral toxicity between animals and man, man being more susceptible than animals. The estimate mean fatal dose 300 mg/kg for an adult. Repeated exposure may cause marked impairment of vision or blindness.
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12 ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Ecotoxicity : No ecotoxicological information available.

Mobility : Spilled product can penetrate into the ground and get into the ground water and surface water.

Persistence – degradability : Data on the biodegradation of this product are not available.

Bio accumulative potential : No specific information known.

13 DISPOSAL CONSIDERATIONS

Product residues : Do not dispose empty pack with regular household waste. Treat product residues and non-empty pack as hazardous waste.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

Comment : Attention is drawn to the possible existence of mandatory and regulatory communal, national or local requirements governing disposal of waste.

14 TRANSPORT

UN number : UN 1230
 Transport name : METHANOL

Land (road / railway)
 ADR/RID class : 3
 Classification code : FT1
 Packaging group : II



Sea
 IMDG class : 3
 Packaging group : II
 EmS (fire / spill) : F-E / S-D
 Marine pollutant : No

Air
 IATA class : 3

Information in this section pertains to shipments of the material in Limited quantity (up to 1 liter) containers. Shipments in containers greater than 1 liter requires flammable sticker. This information does not apply to IATA.

15 REGULATORY INFORMATION

Community regulations : EC classification (67/548/EEC - 99/45/EC) and other regulations

Hazard symbols : F, highly flammable T, toxic



R- and S-phrases : R11 Highly flammable
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R39/23/24 /25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 S1/2 Keep locked up and out of reach of children.
 S16 Keep away from sources of ignition - No smoking.
 S36/37 Wear suitable protective clothing and gloves.
 S45 In case of accident or if you feel unwell, seek medical advise immediately (show the label where possible).
 S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.



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Other information : According to directive 99/45/EC, the packaging of this product shall carry a tactile warning of danger and a child resistant closure.
The packaging shall carry the text:
Contains methanol.

16 OTHER INFORMATION

The information in this safety data sheet is compiled in compliance with Directive 2001/58/EC dated 27 July 2001 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product.
This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

Full text of R-phrases mentioned in section 2:

R11 Highly flammable.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

History

Date of first issue : 08-11-2005