MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: DEB 100
PRODUCT CODE: DEAACD
SUPPLIER: The Soap Kitchen, Unit 2e Hatchmoor Ind/Est, Torrington, EX38 7HP.
Emergency Tel No: 01805 622944

2. COMPOSITION / INFORMATION ON INGREDIENTS.

CHEMICAL NAME: Denatured Ethanol (methanol free).
CHEMICAL FORMULA: CH_3CH_2OH

H-No:	CAS No: 64-17-5	Symbol: F
CoE No:	FEMA:	Additives:
FDA:	IFRA:	Application:
RIFM:	EINECS:	RTECS:
INCI name:	FCCIV:	

3. HAZARDS IDENTIFICATION:

R11 Highly Flammable

4. FIRST-AID MEASURES:

INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Obtain medical attention.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 mins. Obtain medical attention.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. Obtain medical advice.
INGESTION:	Do not induce vomiting. Loosen tight clothing such as collar or waistband. Seek medical attention if symptoms appear.
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15)

5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA	Small Fire: Use Dry Chemical Powder Extinguishers, Large Fire : Use Alcohol Foam, Water Spray or Fog.
SPECIAL MEASURES:	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
HAZARDOUR DECOMPOSITION:	Hazardous thermal decomposition products are carbon Oxides (CO, CO_2)
EXTINGUISHING PROCEDURES:	Cool containers with water spray to prevent pressure build-up, auto ignition or explosion.

6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS:	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, boots, suitable protective clothing).
ENVIRONMENT PRECAUTIONS:	Flammable Liquid. Keep away from heat and sources of ignition. Prevent entry into drains and sewers, basements or confined areas.
CLEANING UP METHODS	Remove all potential ignition sources. Contain spilled material. Dyke if necessary. Absorb with an inert or non-combustible inorganic

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absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING:	Keep away from heat and sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe vapour/fumes/spray. If ingested seek medical advice immediately and show the container or label. Keep away from oxidizing agents, acids.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

WORKPLACE EXPOSURE LIMITS:	EH40 (United Kingdom (UK)). OES: 1000 ppm Period: 8 hours OES: 1900 mg/m3 Period: 8 hours.
RESPIRATORY PROTECTION:	Avoid breathing product vapour. Apply local ventilation where possible. Wear appropriate respirator when ventilation is inadequate.
VENTILATION:	Ensure good ventilation of working area.
SKIN PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK/HYGIENE PRACTICES:	Wash hands with soap & water after handling.

9. PHYSICAL & CHEMICAL PROPERTIES.

COLOUR:	Colourless
APPEARANCE:	Mobile liquid
ODOUR:	Characteristic
BOILING POINT:	78.3 degC (172.9 degF)
MELTING POINT:	-112.3 degC (-170.1 degF)
FLASH POINT:	CLOSED CUP: 12 degC (53.6degF)
VAPOUR DENSITY:	1.59 (Air =1)
AUTOIGNITION TEMERATURE:	365 DEGC (689 DECF)
LOWER EXPLOSION LIMIT:	LOWER: 3.5% UPPER: 19%
SOLUBILITY:	Easily soluble in cold water. The product is more soluble in oil. Octanol/water partition coefficient (oil/water) = 0.3
PH:	7 (neutral)

10. STABILITY & REACTIVITY.

REACTIVITY:	This product is stable. Avoid contact with acids, or oxidising agents.
DECOMPOSITION:	These products are carbon oxides (CO, CO_2).

11. TOXICOLOGICAL INFORMATION.

Acute oral toxicity (LD50): 6200 to 17800 mg/kg (Rat).

12. ECOLOGICAL INFORMATION.

BIODEGRADABILITY:	Readily biodegradable
BIOACCUMULATION:	Shows a low bioaccumulation potential.
ECOTOXICITY:	Not available.

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13. DISPOSAL CONSIDERATIONS.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. TRANSPORT REGULATIONS.

UN:	UN Number 1170
UN:	Proper shipping name: Ethanol.
UN:	Class 3
UN:	Packing group II
UN:	Label
ROAD (ADR/RID):	Class 3 Item 3b Hazard Identification No 33 Tremcard TEC (R) 32, 30G30
AIR (IATA/ICAO):	Proper shipping name: Ethanol. Class 3 Packing group II
SEA (IMDG):	Proper shipping name: Ethanol. Class 3 Packing group II

15. REGULATORY INFORMATION.

HAZARDS:	Hazard symbol
CLASSIFICATION:	Highly Flammable
RISK PHRASES:	R11 Highly Flammable
SAFETY PHRASES:	S7 - Keep container tightly closed. S16 - Keep away from sources of ignition - No Smoking.
PRODUCT USE:	Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use - Consumer applications.

16. OTHER INFORMATION.

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	No
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

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Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

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