



## SAFETY DATA SHEET BLUE STAR DE-ICER AEROSOL

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	BLUE STAR DE-ICER AEROSOL
PRODUCT NO.	EDI300, EDI600, FDI600, HOT016, HOT042, NDI311, NDI601, SDI311, SDI600, SFD131
INTERNAL ID	C
APPLICATION	Antifreeze liquid
SUPPLIER	TETROSYL LIMITED BEVIS GREEN WORKS WALMERSLEY BURY BL9 6RE 0161 764 5981 0161 797 5899 info@tetrosyl.com

### 2 HAZARDS IDENTIFICATION

Extremely flammable  
CLASSIFICATION (1999/45) F+;R12.

HUMAN HEALTH  
See section 11 for additional information on health hazards.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
AMMONIA ...%	215-647-6	1336-21-6	<1%	C;R34 N;R50
BUTANE/PROPANE BLEND	270-704-2	68476-85-7	1-5%	F+;R12.
ETHANEDIOL	203-473-3	107-21-1	5-10%	Xn;R22
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
IPA	200-661-7	67-63-0	1-5%	F;R11 Xi;R36 R67
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Remove affected person from source of contamination. Get medical attention immediately!

#### INHALATION

Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

#### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice.

**BLUE STAR DE-ICER AEROSOL****EYE CONTACT**

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Immediately transport to hospital or eye specialist.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use fire-extinguishing media appropriate for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES**

Be aware of danger of explosion.

**SPECIFIC HAZARDS**

When heated and in case of fire, toxic vapours/gases may be formed.

**PROTECTIVE MEASURES IN FIRE**

Leave danger zone immediately.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet. In case of spills, beware of slippery floors and surfaces.

**ENVIRONMENTAL PRECAUTIONS**

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

**SPILL CLEAN UP METHODS**

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures.

Absorb spillage with non-combustible, absorbent material. Ventilate well. Prevent discharge of larger quantity to drain.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Read and follow manufacturer's recommendations. Always remove grease with soap and water or skin cleaning agent, never use organic solvents. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product.

**STORAGE PRECAUTIONS**

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

**STORAGE CLASS**

Flammable liquid storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
AMMONIA ...%	WEL		18 mg/m <sup>3</sup>		25 mg/m <sup>3</sup>	
BUTANE/PROPANE BLEND	WEL	1000 ppm	1750 mg/m <sup>3</sup>	1250 ppm	2180 mg/m <sup>3</sup>	
ETHANEDIOL	WEL		10 mg/m <sup>3</sup> (Sk)		104 mg/m <sup>3</sup> (Sk)	
ETHANOL	WEL	1000 ppm	1920 mg/m <sup>3</sup>			
IPA	WEL	400 ppm	999 mg/m <sup>3</sup>	500 ppm	1250 mg/m <sup>3</sup>	
METHANOL	WEL	200 ppm(Sk)	266 mg/m <sup>3</sup> (Sk)	250 ppm(Sk)	333 mg/m <sup>3</sup> (Sk)	

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

**BLUE STAR DE-ICER AEROSOL****ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation use suitable respirator.

**HAND PROTECTION**

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear splash-proof eye goggles to prevent any possibility of eye contact.

**OTHER PROTECTION**

Provide eyewash station.

**HYGIENE MEASURES**

Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

**SKIN PROTECTION**

Protection suit must be worn.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE Aerosol

**10 STABILITY AND REACTIVITY****STABILITY**

No particular stability concerns.

**11 TOXICOLOGICAL INFORMATION****HEALTH WARNINGS**

This chemical can be hazardous when inhaled and/or touched. Vapour from this chemical can be hazardous when inhaled.

**ROUTE OF ENTRY**

Inhalation. Ingestion. Skin and/or eye contact. Skin absorption.

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Dangerous for the environment if discharged into watercourses.

**13 DISPOSAL CONSIDERATIONS****GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Only experts should be permitted to carry out disposal of this material.

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb spillage with non-combustible, absorbent material.

**14 TRANSPORT INFORMATION**

GENERAL Full protective clothing should be worn when handling this product.



UK ROAD CLASS 2.1

PROPER SHIPPING NAME AEROSOLS

UN NO. ROAD 1950

UK ROAD PACK GR. #

**BLUE STAR DE-ICER AEROSOL**

ADR CLASS NO.	2.1	ADR CLASS	Class 2: Gases
ADR PACK GROUP	#	ADR LABEL NO.	2.1
CEFIC TEC(R) NO.	20G5F	RID CLASS NO.	2.1
RID PACK GROUP	#	UN NO. SEA	1950
IMDG CLASS	2.1	IMDG PACK GR.	#
EMS	F-D, S-U	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1950
AIR CLASS	2.1	AIR PACK GR.	#

**15 REGULATORY INFORMATION**

## LABELLING



Extremely Flammable

## RISK PHRASES

R12 Extremely flammable.

## SAFETY PHRASES

A1 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

A2 Do not spray on a naked flame or any incandescent material.

S2 Keep out of the reach of children.

S9 Keep container in a well-ventilated place.

S16 Keep away from sources of ignition - No smoking.

S51 Use only in well-ventilated areas.

S56 Dispose of this material and its container to hazardous or special waste collection point.

S46 If swallowed, seek medical advice immediately and show this container or label.

S23 Do not breathe vapour/spray.

## DETERGENT LABELLING

&lt; 5% Aliphatic hydrocarbons

**16 OTHER INFORMATION**

## REVISION COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

## ISSUED BY

Health &amp; Safety Department

REVISION DATE 10/11/2009

REV. NO./REPL. SDS GENERATED 23

## RISK PHRASES IN FULL

R34 Causes burns.

R12 Extremely flammable.

R22 Harmful if swallowed.

R11 Highly flammable.

R36 Irritating to eyes.

R37 Irritating to respiratory system.

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.

R67 Vapours may cause drowsiness and dizziness.

R50 Very toxic to aquatic organisms.

## BLUE STAR DE-ICER AEROSOL

### DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.