



SAFETY DATA SHEET
BLUE STAR DE-ICER AEROSOL

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME BLUE STAR DE-ICER AEROSOL
PRODUCT NO. EDI300, SDI600, SDI300, SDI411, JDI300, JDI600, NDI411, EDI301, EDI600, EDI601, HOT042, NDI311, NDI004, NDI601, SDI311
INTERNAL ID C
APPLICATION Antifreeze liquid
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
AMMONIA ...%	215-647-6	1336-21-6	< 1%	C;R34 N;R50
ETHANEDIOL	203-473-3	107-21-1	1-10%	Xn;R22
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
PROPAN-1-OL	200-746-9	71-23-8	< 1%	F;R11 Xi;R41 R67
PROPAN-2-OL	200-661-7	67-63-0	10-30%	F;R11 Xi;R36 R67
SHAP 70	270-704-2	68476-85-7	1-10%	F+;R12.

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

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

3 HAZARDS IDENTIFICATION

Extremely flammable. Vapours may cause drowsiness and dizziness.

CLASSIFICATION F+;R12. R67.

HUMAN HEALTH

See section 11 for additional information on health hazards.

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. Take along these instructions. Place unconscious person on the side in the recovery position and ensure breathing

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 take these instructions.

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SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Consult a physician for specific advice. Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

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

Beware, risk of formation of toxic and corrosive gases.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive 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. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material.

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 cool, dry well-ventilated place.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
ETHANOL	WEL	1000 ppm	1920 mg/m3		
PROPAN-1-OL	WEL	200 ppm(Sk)	500 mg/m3(Sk)	250 ppm(Sk)	625 mg/m3(Sk)
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3
ETHANEDIOL	WEL		52 mg/m3(Sk)		104 mg/m3(Sk)
SHAP 70	WEL	1000 ppm	1750 mg/m3	1250 ppm	2180 mg/m3

PROTECTIVE EQUIPMENT



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PROCESS CONDITIONS

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

ENGINEERING MEASURES

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

RESPIRATORY EQUIPMENT

Wear suitable respiratory protection. Check that mask fits tight and change filter regularly.

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. Protection against this substance requires special consideration.

EYE PROTECTION

Wear tight-fitting goggles or face shield.

OTHER PROTECTION

Provide eyewash station. AVOID ALL SKIN AND RESPIRATORY CONTACT!

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

10 STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

11 TOXICOLOGICAL INFORMATION

HEALTH WARNINGS

This chemical can be hazardous when inhaled and/or touched. This chemical may cause skin/eye irritation and burns (corrosive). May cause severe internal injury. 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.

UN NO. ROAD

1950

15 REGULATORY INFORMATION

LABELLING

BLUE STAR DE-ICER AEROSOL



Extremely Flammable

RISK PHRASES

R12 Extremely flammable.
R67 Vapours may cause drowsiness and dizziness.

SAFETY PHRASES

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.

DETERGENT LABELLING

< 5% Aliphatic hydrocarbons

UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

16 OTHER INFORMATION

GENERAL INFORMATION

Only trained personnel should use this material.

ISSUED BY

HS&E Manager.

REVISION DATE 27/06/2006

REV. NO./REPL. SDS GENERATED 21

RISK PHRASES IN FULL

R11 Highly flammable.
R12 Extremely flammable.
R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.
R67 Vapours may cause drowsiness and dizziness.

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.