

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hightec Antifreeze AG13 -40°C

Product Use: Antifreeze

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Company Information: Sudheimer Car Technik Vertriebs GmbH

Address: Feldstrasse 154, 22880 Wedel, Germany

Information telephone : +49 (0) 4103 1211 118

Emergency telephone : +49 (0) 4103 1211 0

E-mail : info@sct-germany.de

Fax : +49 (0) 4103 1211 116

2. HAZARDS IDENTIFICATION

Symbols : Harmful (Xn)

Product Classification:

R22– Harmful if swallowed

R48/22 – Harmful :danger of serious damage to health by prolonged exposure through inhalation

Contains Mono Ethylene Glycol

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

CAS No.	EU No.	Name	Weight %	Symbols/Risk Phrases
107-21-1	203-473-3	Mono Ethylene Glycol	30-53	Xn; R22;R48/22 Registration Number: 01-2119456816-28
12179-04-3	215-540-4	Disodium tetraborate petahydrate	0.53-2.70	Xi; R36;R60;R61 Registration Number: 01-2119490790-32-xxxx

4. FIRST AID MEASURES

GENERAL INFORMATION

Remove affect person from source of contamination.

General first aid,rest, warmth and fresh air.

Plase unconscious person on the side in the recovery position and ensure breathing can take place.

NOTES TO PHYSICAN

Treat symtomatically.

Treatment of overexposure shoul be directed at the control of symptoms and the clonical condition of the patient.

INHALATION

Remove victim immediattelv fom source of exposure.

Place unconscious person on the side in the recovery position and ensure breathing

Get medical attention.

INGESTION

Do Not induce vomiting!

When risk of unconsciousness, place and transport the victim in secured side position.Drink plenty of water.

Do not give victim anything to drink if he is unconsciuous.

Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing.

Wash the skin immediately with soap and water.

Get medical attention if any discomfort continues.

EYE CONTACT

Promptly wash eyes with plenty of water while lifting the eye lids.
Make sure to remove any contact lenses from the eyes before rinsing.
Continue to rinse for at least 15 minutes.
Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

Stop flow of material to fire.

Fire can be extinguished using:

Water fog or mist.

Alcohol resistant foam.

Carbon dioxide(CO2).

SPECIAL FIRE FIGHTING PROCEDURES

Avoid beathing fire vapours.

Use water to keep fire exposed containers cool and disperse vapours.

Keep run-off water out of sewers and waters sources. Dike for water control.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet..

ENVIRONMENTAL PRECAUTIONS

Protect drains by covering to avoid any spillage entering the drainage system.

SPILL CLEAN UP METHODS

Stop leak if possible without risk.

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

Wear necessary protective equipment.

Absorb in vermiculite, dry sand or earth and place into containers.

Disposal should be carried out in accordance with the Hazardous Waste Regulations. If any liquid enters the drainage system or watercourse inform the local authorities, Fire Brigade and Environment Agency.

7. HANDLING AND STORAGE**USAGE PRECAUTIONS**

Do not use in confined spaces without adequate ventilation and/or respirator.

Eliminate all sources of ignition.

Keep away from heat, sparks and open flame.

Avoid inhalation of vapours.

Avoid acids, moisture, and combustible materials.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place.

Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Name	STD	TWA-8Hrs	STEL-15min
Mono Ethylene Glycol	WEL	20 ppm(Sk)/52 mg/m ³ (Sk)	40 ppm(Sk)/104 mg/m ³

WEL-Workplace Exposure Limit

INGREDIENT COMMENTS

WEL-Workplace Exposure Limit

Exposure control: Ensure a high level of personal hygiene. Ensure good ventilation. Do not wear clothes that are contaminated with product. Do not put oil wet cloth/towel in your pocket. If there is a

risk of direct contact or splashes, wear face visor or goggles, impervious gloves and protective clothing.

Eye protection: Use suitable face visor or goggles.

Skin protection: Oil impervious protective clothing.

Hand protection: Chemical resistant gloves required for prolonged or repeated contact.

Use protective gloves made of:

Impermeable material.

HYGIENE MEASURES

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

Wash promptly with soap and water if skin becomes contaminated.

DO NOT SMOKE IN WORK AREA!

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	green
Odour:	odourless
Density at 20 ⁰ C	1.065-1,125
Solubility	Miscible with water Miscible with: Acetone Alcohol
Pour point,	- 38 °C
Flash point	140 °C (ASTM D-92)
PH	7,9 (ASTM D1287)

10. STABILITY AND REACTIVITY

Stability: No particular stability concerns. Avoid: heat, sparks, flames.

Materials to Avoid : Acids, oxidising. Strong oxidising substances. Sulphuric Acid, oleum, phosphorous pentasulphide, chlorosulphonic acid.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE 1-LD50 6000-13000 mg/kg(Oral rat)

TOXIC DOSE 2-LD50 >22270 mg/kg rbt skin

TOXIC CONC.-LC50 3.95 mg/L 7h aerosol, rat

TOXICOLOGICAL INFORMATION

As Ethanediol

INHALATION

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

INGESTION

Excessive swallowing of MEG may cause serious injury or death. CNS effects, cardiopulmonary effects and kidney failure. LD Human Adult 100ml.

SKIN CONTACT

Skin irritation is not anticipated when used normally.

EYE CONTACT

May cause temporary eye irritation.

ROUTE OF ENTRY

Ingestion

12. ECOLOGICAL INFORMATION

ECOTOXICITY

EC50, green alga, biomass growth inhibition, 96h: 9500-1300mg/l EC50, OECD 209 Test, activated sludge, respiration inhibition, 30 min:225 mg/l AS Ethanediol.

LC 50 96 Hrs, Fish mg/l 18000-46000

EC 50 Hrs, Daphnia, mg/l 46300-51100

MOBILITY

This material has low volatility and is water soluble hence the potential for mobility is high.

BIOACCUMULATION

Bioconcentration potential is low.

DEGRABILITY

Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Disposal methods: This material must be disposed of via an Authorised Waste/Disposal Company in accordance with Local and National Waste Disposal Regulations.

WASTE CLASS

This material and container must be disposed of as a HAZARDOUS WASTE. The user must be aware that the waste category of this product may be affected by the conditions of use. Please refer to Directive 2001/118/EC for waste nomenclature.

14. TRANSPORT INFORMATION

General: Not classified as dangerous goods according to ADR/RID/IMDG/IATA

Road transport UN No : -

15. REGULATORY INFORMATION

Label for supply: Harmful (Xn)

Risk phrases:

R22– Harmful if swallowed

Safety phrases:

S2 – Keep out of the reach of children

S13 – Keep away from food, drink and animal feedingstuffs.

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

16. OTHER INFORMATION

Explanations of R-phrases in section 2:

R22– Harmful if swallowed

R48/22–Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R36–Irritating to eyes

R61–May cause harm to the unborn child

R60–May impair fertility

The information in this document has been compiled on the basis of the best available knowledge in accordance with the legislative requirements. It does not imply that the information is complete or accurate in all cases. It is the user's responsibility to satisfy themselves as to the application of the information and/or the recommendations given for their own use.