

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

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1. Identification of the substance or mixture and of the company name

Trade Name	VT51 df -28°C
Typical Applications	Coolant – Antifreeze, Heat Transfer Fluid.
Company	AKOTEC Produktionsgesellschaft mbH Grundmühlenweg 3 D-16278 Angermünde Tel.: 03331 25 716 30 Mail: info@akotec.eu

Information Department:
Sales / Technical Department
Mail: info@akotec.eu

Emergency information center:
next poison control center or Tel: +49 (0)551 19240

2. Identification of hazards

2.1. Classification of the substance or mixture

No particular hazards known.

Classification according to Regulation (EC) No. 1272/2008 [CLP]:
The product is not subject to classification

2.2. Label elements

Label according to Regulation (CE) No. 1272/2008 [CLP]:
The product is not subject to labeling

2.3 Other hazards

Unknown.

3. Composition / information on ingredients

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

Glycol with corrosion inhibitors.

4. First aid measures

General advice	Remove contaminated clothing.
On contact with eyes	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
On skin contact	Wash thoroughly with soap and water.
If inhaled	If difficulties occur after vapor/aerosol has been inhaled remove to fresh air and seek medical attention.
On Ingestion	Rinse mouth and then drink water (two glasses at the most). Consult doctor if feeling unwell.
Note to physician	Symptomatic treatment (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media:	Water spray, alcohol resistant foam, dry extinguishers, carbon dioxide (CO ₂)
Specific hazards	Evolution of fumes/fog. The substances/group of substances mentioned can be released in case of fire. Vapors heavier than air.
Special protective equipment	In case of fire, wear a self-contained breathing apparatus.
Further Information	The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed according to official regulations.

6. Accidental release measures

06/2017

Safety Data Sheet VT 51 df

Seite 2 von 7

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

Personal precautions:	Use personal protective clothing. Do not inhale vapors/aerosol.
Environmental precautions:	Do not discharge into drains, surface waters, ground water.
Methods for cleaning up/taking up:	<u>Large amount:</u> Pump off products. <u>Residues/spills:</u> Bind the liquid by using a suitable absorbent material and dispose it according to the regulations.

7. Handling and storage

Handling	Ensure thorough ventilation of stores and working areas.
Protection against fire and explosion.	Take precautionary measures against static discharges. If exposed to fire, keep containers cool by spraying with water.
Storage	Product is hygroscopic. Containers should be stored tightly sealed in dry place. Since zinc is not compatible with propylene glycol, storage in galvanized containers is not recommended.

8. Exposure controls and personal protection

General safety and hygiene measures:	Wash hands and forearms after handling. Do not smoke, eat or drink during manipulations.
Personal protective equipment:	
Respiratory protection:	Only in case of release of fumes/fog. Well ventilated areas are recommended for manipulation. Required when vapors/aerosols are generated. Filter A- (P2)
Hands:	Chemical resistant protective gloves are recommended.
Eyes:	Safety glasses with side-shields.

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

DNEL/DMEL values:

Data for used glycols

<u>Exposition way</u>	<u>Group of persons</u>	<u>Exposition time and /-effect</u>	<u>Value</u>
Skin	Workers	Long / Systematic effects	40 mg/Kg Day
Inhalation	Workers	Long / Local effects	50 mg/m ³
Skin	Consumers	Long / Systematic effects	20 mg/Kg Day
Inhalation	Consumers	Long / Local effects	25 mg/m ³

PNEC Values

Data for used glycols

<u>Fresh water:</u>	10 mg/l
<u>Sea water:</u>	1 mg/l
<u>Water (intermittent Releases):</u>	10 mg/l
<u>Fresh water -Sediment:</u>	46 mg/Kg seco
<u>Sea-Sediment</u>	--,-- mg/kg seco
<u>Soil:</u>	3,32 mg/kg seco
<u>Sewage treatment plant:</u>	20000 mg/l

9. Physical and Chemical properties

Physical state	Liquid
Color	transparent red
Odor	weak, characteristic
pH	8,5-9,5
Boiling point/range	ca. 102°C
Solidification temperature	-22°C bis -28°C
Vapor pressure at 20°C	0.1 mbar bei 20°C
Flash point	>100°C
Lower explosion limit	2,6% V/V
Upper explosion limit	12,6% V/V
Ignition temperature	> 200°C
Density	1.07-1.09 g/cm ³ (20°C)
Solubility in water	Unlimited.
Solubility in other solvents	Soluble in polar solvents.

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

10. Stability and reactivity

Hazardous reactions No hazardous reactions if stored and handle as prescribed.

Substances to avoid Powerful oxidizing agents and strong acids.

Hazardous decomposition products No hazardous decomposition products if stored and handle as prescribed.

11. Toxicological information

1,2 Propanediol data:

Acute Toxicity:

DL50 (Ingestion, Rat): > 5.000mg/kg (IUCLID)
Information based on main substance.

Specific symptoms with animal studies:

Chronic toxicity:

12. Ecological data

Data for used glycols

Ecological Toxicity

Acute Toxicity fishes: Lepomis macrochirus: LC50: >10 mg/l/96h (IUCLID)

Invertebrates

Algae

Microorganisms

Sedimentary Organisms

The inhibition of the active sludge is not expected, when the substance is given in small

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

quantities.

Comments for aquatic toxicity

The product has not been studied. The results are based on the individual properties of the substances.

Persistence and degradability

Biodegradation 95%/14 days (OCDE 302 B): biologically easy degradable.
Information based on main substance.

Additional information Do not release into natural waters.

13. Disposal considerations

Contaminated packaging

Uncontaminated canisters can be re-used. Canisters that cannot be cleaned should be disposed of in the same manner as the contents.

Packaging that cannot be cleaned should be disposed according to the applicable law in the same way that content.

14. Transport information

Not classified as hazardous under transport regulations.
(ADR / RID / ADNR / IMDG/GGVSee ICIAO/IATA)

15. Regulatory information

Regulations of the European Union (labeling) / National legislation / Regulations:

Hazard symbol

H-phrases:

P-phrases:

Safety Data Sheet

According to Regulation (EC) N° 1907/2006 (REACH); 453/2010/EC

16. Further information

Abbreviations and acronyms:

PNEC: Predicted No Effect Concentration.

Intermittent Release: Intermittent but only recurring infrequently i.e. less than once per month and for no more than 24 hours.

This safety data sheet is intended to provide information and recommendations as to:

1. how to handle chemical substances and preparations in accordance with the essential requirements of safety precautions and physical, toxicological and ecological data.
2. How to handle, store, use and transport them safely.

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