

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### **Product identifier**

**Product name:** VAKE Antifreeze

**Product Code:** VAKEanti04, Vakeanti20, Vakeanti200 **Synonyms:** Anti Freeze, Heat Transfer Liquid

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture Antifreeze liquid

## 1.3. Details of the supplier of the safety data sheet

Company name SUNBEAMsystem AB

Finnbergsvägen 62 13131 Nacka

Sweden

Tel: +46 770 221 220

Email: info@SUNBEAMsystem.se

# 1.4. Emergency telephone number

Tel: +46 770 221 220 (office hours only)

#### **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

#### Classification under CLP:

This product has no classification under CLP.

#### 2.2. Label elements

#### Label elements:

This product has no label elements.

## 2.3. Other hazards

#### PBT:

This product is NOT identified as a PBT/vPvB substance.



#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

**Chemical identity:** Refined plant based oil.

# **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**Eye contact:** Bathe the eye with running water.

**Ingestion:** Wash out mouth with water. If large quantities are ingested, consult a doctor.

## 4.2. Most important symptoms and effects, both acute and delayed

**Eye contact:** There may be irritation and redness.

Ingestion: May be harmful if swallowed in large quantities.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate/special treatment:** Show this safety data sheet to the doctor in attendance.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

# 5.1. Extinguishing media

**Extinguishing media**: Water spray. Carbon dioxide. Alcohol resistant foam. Dry chemical powder.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Incomplete incineration can create carbon oxides.

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:**Wear self-contained breathing apparatus.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal precautions, protective equipment and emergency procedures

# Personal precautions:

Danger for slipping. Clean up product immediately. Use footwear with sufficient grip.

## 6.2. Environmental precautions

## **Environmental precautions:**

Follow local laws regarding discharging.

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# 6.3. Methods and material for containment and cleaning up

## Clean-up procedures:

Soak up with inert absorbent material and dispose at waste collection point.

#### 6.4. Reference to other sections

Reference to other sections: For waste disposal see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1. Precautions for safe handling

## Handling requirements:

For precautions see section 4.1.

# 7.2. Conditions for safe storage, including any incompatibilities

## Storage conditions:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

## 7.3. Specific end use(s)

## Specific use(s):

No other specific uses stipulated other than the uses mentioned in section 1.2.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1. Control parameters

#### Workplace exposure limits

Resiprable dust

State 8 hour TWA 15 min STEL | 8 hour TWA 15min STEL

Sweden 10mg/m3

**DNEL / PNEC:** No data available

## 8.2. Exposure controls

**Engineering measures** Handle in accordance with good industrial hygiene and safety practice.

**Respiratory protection** If treating liquids above 80°C and professional risk assessment shows

air-purifying respirators are appropriate, e.g. due to the possible presence of other elements use a full-face respirator and protection.

**Hand protection** If handling hot liquids, or liquids that might contain residue from

different products previously used in the system, use protective gloves.

**Eye protection** Safety glasses.





VAKE Antifreeze 99.5% and 50%

**Skin protection** If treating hot liquids that might cause burns, or treating liquids that

might contain residues from other products, use protective clothing.

**Environmental** Follow local laws regarding discharging non-toxic liquids other than

rainwater.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

State	Liquid
Color	Colorless
Odor	Odorless
Solubility in water	Soluble
Boiling point in Celsius	179
Melting point	19
Flammability limits & lower	0.9
Flash point in Celsius	180
Vapor pressure	0.0033 hPa at 50°C
Relative density	1.25 g/ml
рН	5.5-8

#### 9.2. Other information

Other information: Surface tension - 63.4 mN/m at 20C Relative vapor density - 3.18 (Air = 1.0)

## **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

**Reactivity**: Stable under recommended transport or storage conditions.

## 10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions

## 10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

## 10.4. Conditions to avoid

Conditions to avoid: No data available.

# 10.5. Incompatible materials

**Materials to avoid:** Strong bases. Strong oxidizing agents.



## 10.6. Hazardous decomposition products

**Haz. decomp. products:** Other decomposition products - no data available. In the event of fire: see section 5

#### SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
Dermal	RAT	LD50	>10	kg/kg
Oral	RAT	LD50	12.6	kg/kg

# 11.2. Symptoms / routes of exposure

**Eye contact**: There may be irritation and redness.

**Ingestion:** May be harmful if swallowed in large quantities.

#### **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

Ecotoxicity (aquatic and terrestrial, where available)

**Ecology - General: No supplementary information available.** 

Ecology - Air: TA-Luft Klasse 5.2.5.

**Ecology - Water:** 

Mild water pollutant (surface water)

NOT harmful to fishes (LC50 (96h) >1,000 mg/l)

NOT harmful to aquatic organisms (EC50 >1,000 mg/l)

NOT harmful to algae NOT harmful to bacteria

NOT Harriful to bacteria

Bioaccumulation: not applicable

Sludge digestion is inhibited at >1,000 mg/l 50%

Readily biodegradable in water (OECD 301D: 82%; 20 days)

While degrading in water, oxygen is consumed. Concentration limits apply:

Organism/Biotic Test Concentration limits

LC50 fishes 1 54,000 mg/l (96 h, SALMO GAIRDNERI/

ONCORHYNCHUS MYKISS)

LC50 other aquatic organisms 1 > 1,000 mg/l (96 h)

LC50 other aguatic organisms 1 > 1,000 mg/l (BACTERIA, ACTIVATED SLUDGE)

LC50 fish 2 > 1,000 mg/l (96 h, PISCES)

EC50 Daphnia 2 > 10,000 mg/l (24 h, DAPHNIA MAGNA, LOCOMOTOR

EFFECT)

TLM fish 1 > 1,000 ppm (96 h, PISCES)

TLM other aquatic organisms 1 > 1,000 ppm (96 h)

Threshold limit other aquatic organisms 2,900 mg/l (192 h, MICROCYSTIS AERUGINOSA,

TOXICITY TEST)

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Threshold limit other aquatic organisms 2

Threshold limit algae 1

> 10,000 mg/l (16 h, PSEUDOMONAS PUTIDA, TOXICITY TEST)
> 10,000 mg/l (168 h, SCENEDESMUS QUADRICAUDA, TOXICITY TEST)

# 12.2. Persistence and degradability

Readily biodegradable, OECD 301

Biochemical oxygen demand (BOD): 0.87 g O2/g substance

Chemical oxygen demand (COD): 1.16 g O2/g substance (ISO 15705)

ThOD: 1.217 g O2/g substance BOD: (% of ThOD) 71 % ThOD

# 12.3. Bioaccumulative potential

Log P octanol /water = -1.76/2.6

## 12.4. Mobility in soil

Surface tension 0,063 N/m (20°C) Ecology - biodegradability in soil: no data available

## 12.5. Results of PBT and vPvB assessment

PBT identification

This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

Other adverse effects

None available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Disposal operations

Follow local laws regarding discharging non-toxic liquids other than rainwater.

Disposal of packaging

Sort and dispose of as recyclable plastic container.

## **SECTION 14: TRANSPORT INFORMATION**

Transport class: This product does not require a classification for transport.

Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR





#### **SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

No REACH Annex XVII restrictions

# 15.2. Chemical Safety Assessment

**Chemical safety assessment:** For this product a chemical safety assessment was not carried out.

#### **SECTION 16: OTHER INFORMATION**

## Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.