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### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name KANSLER, ANTIFREEZE Long Life concentrate

Product use Liquid for car cooling circuit

Company BLW Handel Gmbh

Address Wachtelstr. 13 12526 Berlin, Deutschland

Phone +49 30 818 78 777

E-mail address info@kansler.de

Emergency telephone number 112

## 2. HAZARDS IDENTIFICATION

Classification of a mixture The mixture is hazardous according to Regulation (EC) No. 1272/2008.

Physical hazards Liquid for car cooling circuit.

Health hazards Acute toxicity (oral), Category 4; H302.

STOT RE 2: H373.

Environmental hazards Not Classified.

Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP].

Hazard pictograms





Signal words Warning.

Hazardous ingredients Ethanediol.

Hazard statements H302 Harmful if swallowed.

H373 May cause damage to the kidneys through prolonged or repeated exposure.

Precautionary Statements P102 Keep out of reach of children.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P270 Do not eat, drink or smoke when using this product.

P264 Wash thoroughly after handling.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

Other hazards No additional information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENT

### Mixture:

Name	W (%)	CAS Nr. EC Nr.	Classification
Ethanediol	90	107-21-1	Acute Tox. 4; H302
		203-473-3	STOT RE 2; H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

Description of first aid measures:

After ingestion If swallowed, get immediate medical attention. Do not induce vomiting.

After inhalation Move a person to fresh air if necessary.

In case of skin contact Wash the skin with soap and water. Remove contaminated clothing as soon as

possible. Seek medical advice if symptoms persist

In case of eye contact Flush immediately with water for at least 15 minutes. Get medical advice if

discomfort continues. Continue to flush during transport to physician.

Most important symptoms and effects, both acute and delayed:

Symptoms/injuries after inhalation Not expected to present a significant inhalation hazard under anticipated conditions

of normal use.

Symptoms/injuries after skin contact Not expected to present a significant skin hazard under anticipated conditions of

normal use.

Symptoms/injuries after eye contact Not expected to present a significant eye contact hazard under anticipated

conditions of normal use.

Symptoms/injuries after ingestion Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed:

First aid kits: Clean, warm water, soap, drinking water.

### **5. FIREFIGHTING MEASURE**

Suitable extinguishing media Carbon dioxide (CO2), dry chemical powder, foam. Water fog. Apply aqueous

extinguishing media carefully to prevent frothing/steam explosion.

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Special hazards arising from the substance or mixture

No additional information available.

Advice for firefighter

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.

## **6. ACCIDENTAL RELEASE MEASURE**

Personal precautions, protective equipment and emergency procedures Stop leak if safe to do so. Evacuate personnel to a safe area. Avoid any direct contact with the product. Avoid contact with skin, eye and clothing. Avoid breathing dust. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Spilled material may present a slipping hazard. Prevent entry to sewers and public waters. Wear suitable protective clothing and eye/face protection.

**Environmental precaution** 

Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material.

Methods and material for containment and cleaning up

Wear suitable protective clothing. Stop leak if safe to do so. Spilled material may present a slipping hazard. Small spills: Clean up any spills as soon as possible, using an absorbent material to collect it. Contain large spills to maximize product recovery or disposal. Substance floats in water. Specialist clean-up methods may be required. Comply with applicable regulations.

Reference to other section

Refer to sections I (contact and emergency phone number), 8 and 13.

### 7. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

Precautions for safe handling:

Avoid all unnecessary exposure, Both local exhaust and general room ventilation are usually required. Remove ignition sources. No open flames. No smoking. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities:

Technical measures: Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to flames, sparks, heat, or other potential ignition sources.

Storage condition(s): Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Do not store near oxidizing agents.

Recommended Materials:

For containers or container linings, use mild steel or high density polyethylene.

Specific end use: No additional information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Antifreeze concentrate:

TWA(8 Hrs): 52 mg/m<sup>3</sup> TWA(8 Hrs): 20 ma/m<sup>3</sup>

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Ethanediol:

DNEL Workers - Dermal; Long term systemic effects: 106 mg/kg/day

Workers - Inhalation; Long term systemic effects: 35 mg/m³ Consumer - Dermal; Long term systemic effects: 53 mg/kg/day Consumer - Inhalation; Long term systemic effects: 7 mg/m³

PNEC Water, Fresh water; 10 mg/l

Water, Marine water; 1 mg/l

STP; 199,5 mg/l

Sediment (Freshwater); 37 mg/kg/sediment dw Sediment (Marinewater); 3,7 mg/kg/sediment dw

Soil; 1,53 mg/kg

Personal protective equipment:

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Permeation time: minimum >480min long term exposure; material / thickness (mm):

>0,35 mm. Butyl rubber (IIR) /. Polyvinylchloride (PVC)

Skin and body protection No special clothing/skin protection equipment is recommended under normal

conditions of use.

Eyes protection Safety glasses. Standard EN 166 - Personal eye-protection.

Hygiene measure Handle in accordance with good industrial hygiene and safety practice. Avoid contact

with skin and eyes. Wash hands thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. DO NOT use gasoline, kerosene, solvents, or harsh abrasives as skin cleansers. Remove all contaminated clothing and footwear. Wash contaminated clothing prior

to re-use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance 5 7 Liquid

Odor Characteristic
Odor Threshold Not established

pH 8 (after dilution with water 50/50 vol.)

Melting Point / Freezing Point  $\leq -35^{\circ}$ C (after dilution with water 50/50 vol.)

Initial Boiling Point and Boiling

Range >107.5 °C (after dilution with water 50/50 vol.)

Flash point Not applicable Flammability Not applicable

Upper/Lower Flammability or

Explosive Limits 3,2 - 15,3 % vol. (for ethylene glycal)

Vapor Pressure 20°C 0.123 hPa at 25°C Vapor Density against air - 2.14 Relative Density 15°C 1.13 (water = 1)

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Solubility in Water Glycol is unlimitedly soluble in water; soluble in most of organic solvents (alcohol,

acetone, ether).

Insoluble in aliphatic hydrocarbons (hexane, extraction naphtha) and carbon

tetrachloride.

Partition Coefficient:

n-Octanol/Water log Pow -1,36 (for ethylene glycol)

Auto-ignition Temperature 398°C

Decomposition Temperature Not established
Viscosity Not established

**10. STABILITY AND REACTIVITY** 

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reaction No information available.

Conditions to avoid No additional information available.

Incompatible materials No additional information available.

Hazardous decomposition product None under normal conditions.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity Oral: Harmful if swallowed.

Ethanediol LD50 oral ATE: 16667 mg/kg OECD 401

LD50 oral rat: 5840 mg/kg OECD 401

LD50 dermal rabbit: 9530 mg/kg OECD 402

Skin Irritation Not classified.

Eye Irritation Expected to be slightly irritating.

Sensitization Not expected to be a skin sensitizer.

Repeated dose toxicity No data available.

Carcinogenicity Not classified.

Mutagenicity Not expected to be mutagenic.

Toxicity for reproduction Not expected to be toxic.

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Information on likely routes of exposure:

After inhalation Inhalation of vapors may cause respiratory irritation.

After contact with skin Prolonged or repeated skin contact with the material will remove natural oils and

could lead to dermatitis.

After contact with eyes Flush immediately with water for at least 15 minutes. Get medical advice if

discomfort continues. Continue to flush during transport to physician.

After ingestion may cause nausea, vomiting and diarrhea.

Delayed and immediate effects as well as chronic effects from short and long-

term exposure

No adverse health effects were noted.

Other information No data available.

### 12. ECOLOGICAL INFORMATION

Toxicity

Ethanediol LC50 fish 1: 72860 mg/l @96h - Pimephales promelas.

EC50 Daphnia I: 100 mg/l @48h - Daphnia magna.

EC50 other aquatic organisms 1: 13000 mg/l @72h - Selenastrum capricornutum.

Persistence and degradability The environment is biochemically decomposed, 90-100%, 10days; OECD 301A.

Bioconcentration factor (BCF REACH): 0,60

Mobility in soil Surface tension: 49890 N/m @25°C.

Results of PBT and vPvB assessment No additional information available.

Other adverse effects Product is a mixture of non-volatile components, which are not expected to be

released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

#### 13. DISPOSAL CONSIDERATIONS

Material Disposal Recover or recycle if possible. It is the responsibility of the waste generator to

determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in

water courses.

Container Disposal Dispose in accordance with prevailing regulations, preferably to a recognized

collector or contractor. The competence of the collector or contractor should be

established beforehand.

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Local Legislation Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## 14. TRANSPORT INFORMATION

The substance is not a subject to transport regulations on hazardous goods included in ADR (road transport), RID (rail transport), IMDG (marine transport) and ICAO/IATA (air transport).

UN number

UN proper shipping name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for use

Not applicable.

Not applicable.

Not applicable.

Not applicable.

### **15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment:

No chemical safety assessment has been carried out for the substance or the mixture by the supplier.

## **16. OTHER INFORMATION**

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. 4 (Oral) - Acute toxicity (oral), 4 cat.

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

Key or legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road DNEL : Derived No Effect Level

EINECS: European Inventory of Existing Commercial Chemical

Substances (EINECS)
EN: European Standard
ES: Exposure Scenario
EU: European Union

IATA: International Air Transport Association

LC50: Lethal Concentration to 50 % of a test population

LD50 : Lethal Dose to 50% of a test population (Median Lethal Dose)

NDSL: Non-Domestic Substances List (NDSL)

OEL : Occupational Exposure Limit PEC : Predicted Effect Concentration PNEC : Predicted No Effect Concentration

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PPE: Personal Protection Equipment

RID: Regulations concerning the International Carriage of Dangerous

Goods by Rail

STEL : Short term exposure limit TWA : time weighted average

#### Other information:

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