

CLOSE TO OUR CUSTOMERS

Product Name: WGP Antifreezing Compound KLEEMANN

Revision: 15.07.2021

**Part No: 2535933****SAFETY DATA SHEET**

According to the Hazard Communication Standard, 29 CFR 1910.1200

**SDS # : 31315 WGP Antifreezing Compound KLEEMANN****1. IDENTIFICATION****Product identifier****Product name** WGP Antifreezing Compound  
KLEEMANN**Other means of identification****Product Code(s)** 31315**Number** FDW**Substance/mixture** Mixture**Recommended use of the chemical and restrictions on use****Identified uses** Antifreeze. Coolant.**Uses advised against** Do not use for any purpose other than the one for which it is intended **Details of the supplier of the safety data sheet****Supplier Address** **Wirtgen GmbH**  
Reinhard-Wirtgen-Str. 2  
D-53578 Windhagen  
Telefon:(+49)02645/131 -0  
customersupport@wirtgen.de**Contact Point** Technical/ HSEQ**Emergency telephone number****Company Phone Number** +1 (908) 862-9300**Emergency telephone** CHEMTREC: +1 800 424 9300 (24h)**2. HAZARDS IDENTIFICATION****Classification**

Acute Toxicity - Oral - Category 4

Specific target organ systemic toxicity (repeated exposure) - Category 2

**Label elements**

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**WARNING**

Harmful if swallowed

May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Ingestion**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Unknown Acute Toxicity**

No information available

**Hazards not otherwise classified (HNOC)**

- None known

**Other information**

- Contaminated surfaces will be extremely slippery
- Should not be released into the environment

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Monoethyleneglycol	107-21-1	<98
Sodium benzoate	532-32-1	<5
disodium tetraborate pentahydrate	12179-04-3	<3

**Additional information**

Product with ethylene-glycol base This product contains an approved repellent (bitter), for the purpose of avoiding the risk of accidental ingestion

**4. FIRST AID MEASURES**
**First aid measures for different exposure routes**
**General advice**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

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<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b><u>Most important symptoms/effects, acute and delayed</u></b>	
<b>Skin contact</b>	Not classified.
<b>Eye contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
<b>Ingestion</b>	May be harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious nervous disorders. This develops into a state of torpor and then coma, at times accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that may be fatal. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Symptoms</b>	
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>	
<b>Notes to physician</b>	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b><u>Suitable Extinguishing Media</u></b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
<b><u>Explosion Data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.



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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

**Other information** See Section 12 for additional information.

### Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### Methods and materials for containment and cleaning up

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion** Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to Avoid** Strong oxidizing agents.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure limits** Ingredients with workplace control parameters.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Monoethyleneglycol 107-21-1	Ceiling 100 mg/m <sup>3</sup>	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	
disodium tetraborate pentahydrate 12179- 04-3	STEL 6 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

### Exposure controls

**Engineering Measures** Apply technical measures to comply with the occupational exposure limits.

### Individual protection measures, such as personal protective equipment

**General Information**

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

**Eye/Face Protection**

If splashes are likely to occur, wear: Safety glasses with side-shields.

**Skin and body protection**

Wear suitable protective clothing. Protective shoes or boots.

**Hand Protection**

Hydrocarbon-proof gloves. Rubber gloves. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**Respiratory protection**

None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

**Color**

blue green

**Physical State @20°C**

liquid

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<b>Odor</b>		Slight	
<b>Odor Threshold</b>		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>	7.2		
<b>Melting point/range</b>		No information available	
<b>Boiling point/boiling range</b>	<b>180 °C</b> 356 °F		
<b>Flash point</b>	<b>122 °C</b> 252 °F		
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air upper Lower</b>	-	No information available	
<b>Vapor Pressure</b>	-	No information available	
<b>Vapor density</b>		No information available	
<b>Relative density</b>		No information available	
<b>Density</b>	1.1	@ 20 °C	
<b>Water solubility</b>	1100 kg/m <sup>3</sup>	@ 20 °C	
<b>Solubility in other solvents</b>		soluble	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	No information available
	<b>Viscosity, kinematic</b>		
<b>Explosive properties</b>			
<b>Oxidizing Properties</b>	Not explosive		
<b>Possibility of hazardous reactions</b>	Not applicable		
	Not applicable		
<b>Other information</b>			
<b>Freezing Point</b>	-18 °C 0 °F		

## 10. STABILITY AND REACTIVITY

**Reactivity** \_\_\_\_\_ No information available.

**Chemical stability** \_\_\_\_\_ Stable under recommended storage conditions.

**Possibility of hazardous reactions** \_\_\_\_\_ None under normal processing.

**Conditions to Avoid** \_\_\_\_\_ Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

**Incompatible Materials** \_\_\_\_\_ Strong oxidizing agents.

**Hazardous Decomposition Products** \_\_\_\_\_ None under normal use.

## 11. TOXICOLOGICAL INFORMATION Acute toxicity

### Information on likely routes of exposure

**Principle Routes of Exposure** Inhalation, Ingestion, Eye contact, Skin contact.

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**Product Information**                      No acute toxicity information is available for this product

**Numerical measures of toxicity - Product Information**

**ATEmix (oral)**                                      501 mg/kg  
**ATEmix (dermal)**                                66923 mg/kg  
**Inhalation**  
**ATEmix (inhalation-dust/mist)** 5.2 mg/l

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Monoethyleneglycol 107-21-1	LD50 7712 mg/kg Oral (Rat)	LD50 > 3500 mg/kg Dermal (Mouse)	LC50(6h) >2.5 mg/l Inhalation (Rat)
Sodium benzoate 532-32-1	= 2100 mg/kg ( Rat )		
disodium tetraborate pentahydrate 12179-04-3	LD50 > 2500 mg/kg (Rat - male OECD401)	LD50 > 2000 mg/kg (Rabbit)	

**Information on toxicological effects**

**Symptoms**                                      Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Skin contact**                                      Not classified.

**Eye contact**                                      Not classified.

**Inhalation**                                      Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**Ingestion**                                      May be harmful if swallowed. Ingestion constitutes the main danger because of the toxicity of ethylene glycol. Accidental ingestion may be harmful to the central nervous system. Ingestion is followed first by digestive disorders (nausea, vomiting, abdominal pain), then by loss of muscular coordination, convulsions, headaches, and dizzy spells, preceding serious nervous disorders. This develops into a state of torpor and then coma, at times accompanied by convulsions. Intoxication can lead to a coma with metabolic acidosis that may be fatal.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization**                                      Not classified as a sensitizer.  
**Carcinogenicity**                                This product is not classified carcinogenic.

**Mutagenicity**                                      This product is not classified as mutagenic.  
**Reproductive toxicity**                        This product does not present any known or suspected reproductive hazards. The provider of a component used in the formulation indicates that the data available show that use applied rates, no classification as toxic for reproduction is required.

**STOT-single exposure**                        Not Classified.  
**STOT - repeated exposure**                May cause damage to organs through prolonged or repeated exposure. Kidney.  
**Aspiration Hazard**                              Not classified.

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**12. ECOLOGICAL INFORMATION**
**Ecotoxicity**
**Acute aquatic toxicity - Product Information**

No experimental data available

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Monoethyleneglycol 107-21-1	EC50(48h) >10000 mg/l	LC50 (95h) 72860 mg/l (Pimephales promelas) LC50(96h) 18500 mg/l (Rainbow trout) EC50(96h) 6500-13000 mg/l (Selenastrum capricornulum)	EC50(48h) >100 mg/l Daphnia magna (OECD 202)	
Sodium benzoate 532-32-1		LC50 (96h) > 100 mg/L Pimephales promelas (static) LC50 (96h) 420- 558 mg/L Pimephales promelas (flow-through)	EC50 (48h) < 650 mg/L Daphnia magna	

**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**
**Effects on terrestrial organisms** No information available.

**Persistence and degradability**
**General Information**

No information available.

**Bioaccumulative potential**
**Product Information**

No information available.

**logPow** No information available **Component Information**

Chemical Name	log Pow
Monoethyleneglycol 107-21-1	-1.36
Sodium benzoate 532-32-1	-2.13

**Mobility**
**Soil**

Given its physical and chemical characteristics, the product is generally mobile in the ground



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**Air** Loss by evaporation is limited

**Water** soluble **Other adverse effects**
**General Information** No information available

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste treatment**
**Waste Disposal Methods** Dispose of in accordance with local regulations.

Dispose of in accordance with local

**Contaminated packaging** regulations.

<b>14. TRANSPORT INFORMATION</b>
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**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO/IATA** Not regulated

**IMDG/IMO** Not regulated

**ADR/RID** Not regulated

**ADN** Not regulated

<b>15. REGULATORY INFORMATION U.S. Federal Regulations</b>
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**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

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Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Monoethyleneglycol	107-21-1	<98		Group I		

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Monoethyleneglycol	5000 lb	

**U.S. State Regulations**
**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Monoethyleneglycol 107-21-1	X	X	X	X	X
disodium tetraborate pentahydrate 12179-04-3	X				

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical hazards - Personal protection</b>
<b>HMIS</b>	<b>Health Hazard</b> 2	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	X

NFPA (National Fire Protection Association)

HMIS (Hazardous Material Information System)

Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

**Revision Date:** 2015-07-29

**Revision Note** \*\*\* Indicates updated section

**Abbreviations, acronyms**

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**Legend**

Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH - National Institute for Occupational Safety and Health

TLV - Threshold Limit Values

PEL - Permissible Exposure Limits

IDHL - Immediately Dangerous to Life or Health concentrations

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S\* - Skin notation

TSCA - Toxic Substance Control Act

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**This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.**

**End of the safety data sheet**