## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 05-09-17 Revision date: 05-09-17 Version: 1.0

.1. Product	identifier			
Product form	: N	Mixture		
Product name	: F	RADIATOR STOP LEAK AUT	OPLUS	
Product code	: F	PN2011 # 731201PN R0		
I.2. Relevant	identified uses of the substanc	e or mixture and uses advis	ed against	
	identified uses		ou ugunor	
ntended for genera				
Main use category	•	Consumer use		
0,	deed eveloped			
	vised against			
No additional inform	nation available f the supplier of the safety data	ahaat		
	RES - SUISSE			
Γ +41 (0) 22 525 45 nfo@autoplus-addi	5 30 <u>tives.com</u> - <u>www.autoplus-additive</u>	es.com		
F +41 (0) 22 525 45         nfo@autoplus-addi         I.4.       Emergen	5 30 tives.com - www.autoplus-additive ncy telephone number	Address	Emergency number	Comment
Γ +41 (0) 22 525 45 nfo@autoplus-addi	5 30 <u>tives.com</u> - <u>www.autoplus-additive</u>		Emergency number +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	Comment
F +41 (0) 22 525 45           nfo@autoplus-addi           I.4.         Emergen           Country	5 30 tives.com - www.autoplus-additive trev telephone number Organisation/Company National Poisons Information Centre	Address PO Box 1297 Beaumont Road	+353 1 809 2566 (Healthcare professionals-24/7)	Comment
Γ +41 (0) 22 525 45         nfo@autoplus-addi         I.4.       Emergen         Country         Ireland	5 30 tives.com - www.autoplus-additive ory telephone number Organisation/Company National Poisons Information Centre Beaumont Hospital Medicines & Poisons Info	Address PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	Comment
۲ +41 (0) 22 525 45 nfo@autoplus-addi I.4. Emergen Country Ireland Malta United Kingdom	5 30 tives.com - www.autoplus-additive organisation/Company National Poisons Information Centre Beaumont Hospital Medicines & Poisons Info Office Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Address         PO Box 1297         Beaumont Road         9 Dublin         Mater Dei Hospital         MSD Msida         Avonley Road	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) +356 2545 6504	Comment
F +41 (0) 22 525 45         nfo@autoplus-addi         I.4.       Emergen         Country         Ireland         Malta         United Kingdom         SECTION 2: Hall	5 30 tives.com - www.autoplus-additive cy telephone number Organisation/Company National Poisons Information Centre Beaumont Hospital Medicines & Poisons Info Office Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Address         PO Box 1297         Beaumont Road         9 Dublin         Mater Dei Hospital         MSD Msida         Avonley Road         SE14 5ER London	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) +356 2545 6504	Comment
F +41 (0) 22 525 45         Info@autoplus-addi         I.4.       Emergen         Country         Ireland         Malta         United Kingdom         SECTION 2: Hashing         2.1.         Classific	5 30 tives.com - www.autoplus-additive organisation/Company National Poisons Information Centre Beaumont Hospital Medicines & Poisons Info Office Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust azards identification ation of the substance or mixtu	Address         PO Box 1297         Beaumont Road         9 Dublin         Mater Dei Hospital         MSD Msida         Avonley Road         SE14 5ER London	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) +356 2545 6504	Comment
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# No additional information available

Labelling according to Regulation (EC	) No. 1272/2008 [CLP]
Precautionary statements (CLP)	<ul> <li>P102 - Keep out of reach of children</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor</li> <li>P501 - Dispose of contents/container to a hazardous or special waste collection point</li> </ul>
Security closing plug for children	: Not applicable
Tactile warning	: Not applicable

#### 2.3. Other hazards

No additional information available

SECTIO	DN 3: Composition/information on ingredients
3.1.	Substances
Not applie	cable
3.2.	Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	<10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Glycerol substance with national workplace exposure limit(s) (FR)	(CAS-No.) 56-81-5 (EC-No.) 200-289-5 (REACH-no) 01-2119471987-18	<10	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	<ul> <li>Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.</li> </ul>
First-aid measures after inhalation	<ul> <li>If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> </ul>
First-aid measures after skin contact	: Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and effe	cts, both acute and delayed
No additional information available	
4.3. Indication of any immediate medica	I attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Water spray. Dry powder. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	bstance or mixture
Hazardous decomposition products in case of	: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic
fire	gases.
5.3. Advice for firefighters	
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Prevent liquid from entering sewers, watercourses, underground or low areas.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
Dike for recovery or absorb with appropriate ma waters.	erial. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public
6.3. Methods and material for containme	ent and cleaning up
For containment	: Recover the product with absorbent material.
Methods for cleaning up	: Clean up any spills as soon as possible, using an absorbent material to collect it.
6.4. Reference to other sections	
	ure controls/personal protection". For disposal of solid materials or residues refer to section 13 :

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SECTION '	7: Handling and storage			
7.1. Pre	cautions for safe handling			
Precautions for	Precautions for safe handling		Do not eat, drink or smoke when using this product.	
Hygiene measures		:	: Wash contaminated clothing before reuse. Always wash hands after handling the product.	
7.2. Cor	7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions		:	Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep out of frost. Keep away from heat.	

#### Specific end use(s) 7.3.

No additional information available

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

propan-2-ol (67-63-0)			
France	VLE (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>	
France	VLE (ppm)	400 ppm	
Switzerland	MAK (mg/m³)	500 mg/m <sup>3</sup>	
Switzerland	MAK (ppm)	200 ppm	
Switzerland	KZGW (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>	
Switzerland	KZGW (ppm)	400 ppm	
Glycerol (56-81-5)			
France	VME (mg/m³)	10 mg/m <sup>3</sup>	

#### 8.2. **Exposure controls**

### Hand protection:

In case of repeated or prolonged contact wear gloves. EN 374

#### Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed. EN 166

### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Good ventilation of the workplace required



<b>SECTION 9: Physical and chemica</b>	al properties		
9.1. Information on basic physical an	d chemical properties		
Physical state	: Liquid		
Appearance	: Emulsion.		
Colour	: Green.		
Odour	: No data available		
Odour threshold	: No data available		
pH	: 8-9		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: > 100 °C		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
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Relative density	: No data available
Density	: 0,99 - 1,01 (20°C)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

### No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions of use.
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Heat. Open flame. Sparks. Water, humidity. Freezing.
10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

<b>SECTION 11: Toxicological informat</b>	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
propan-2-ol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16,4 ml/kg
LC50 inhalation rat (ppm)	> 10000 ppm (6 hours)
Glycerol (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 8 - 9
Serious eye damage/irritation	: Not classified
	pH: 8 - 9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

<b>SECTION 12: Ecological in</b>	nformation	
12.1. Toxicity		
Acute aquatic toxicity	: Not classified	
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Chronic aquatic toxicity	: Not classified	
propan-2-ol (67-63-0)		
LC50 fish 1	9640 mg/l (Pimephales promelas)	
LC50 other aquatic organisms 1	> 10000 mg/l (Daphnia magna)	
EC50 Daphnia 1	5102 mg/l (OCDE 202)	
EC50 72h algae (1)	> 100 mg/l (Scenedesmus subspicatus)	
Glycerol (56-81-5)		
LC50 fish 1	54000 mg/l	
LC50 fish 2	> 1000 mg/l	
TLM fish 1	> 1000 ppm	
TLM other aquatic organisms 1	> 10000 ppm	
Threshold limit other aquatic organisms 1	2900 mg/l	
Threshold limit other aquatic organisms 2	> 10000 mg/l	
Threshold limit algae 1	> 10000 mg/l	

### 12.2. Persistence and degradability

propan-2-ol (67-63-0)		
Biodegradation	> 98 %	
Glycerol (56-81-5)		
Biochemical oxygen demand (BOD)	0,87 g O <sub>2</sub> /g substance	
Chemical oxygen demand (COD)	1,16 g O <sub>2</sub> /g substance	
ThOD	1,217 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	71 % ThOD	
2.3. Bioaccumulative potential		
propan-2-ol (67-63-0)		
Log Pow	0,05 (25°C)	
Glycerol (56-81-5)		
Log Pow	-1,76 - 2,6	
12.4. Mobility in soil		
Glycerol (56-81-5)		
Surface tension	0,063 N/m (20°C)	
12.5. Results of PBT and vPvB assessment		
No additional information available		

### 12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Sewage disposal recommendations	: Do not discharge into drains or the environment.		
Product/Packaging disposal recommendations	: Collect all waste in suitable and labelled containers and dispose according to local legislation.		
Ecology - waste materials	: Do not discharge the product into the environment.		

# SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	RID	
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available				

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### 14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

### - Air transport

Not applicable

### - Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

### SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

### 15.1.2. National regulations

#### France

Occupational diseases	: RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel
Germany	
VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting	: None of the components are listed

### 15.2. Chemical safety assessment

No additional information available

giftige stoffen - Ontwikkeling

### **SECTION 16: Other information**

### Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

#### SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product