

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier **INA Antifriz BS Super**

Trade name: -

Chemical name: -

Catalogue number: -

UFI: **S2YS-YFQ2-750R-EV0R**

Form: -

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

Uses: Engine coolant.

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

Supplier identification: INA MAZIVA Ltd  
Member of INA Group

Address: Croatia, 10000 Zagreb, Radnička cesta 175

Telephone number: 00-385 1 2412 010

e-mail of competent person: biserka.sagovaclazar@ina.hr

### 1.4 Emergency tel. number:

National Protection and Rescue Directorate: 112

Medical information: 00-385-1-23-48-342 (Croatia)

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Acute tox. Cat. 4, H302

STOT RE Cat. 2 (Kidney), H373

Repro. Cat. 2, H361d

### 2.2 Label elements

Product identification: INA Antifriz BS Super

Identification number: -

Authorisation number: -

**Hazard pictograms:**



**Signal word: WARNING**

**Hazard statement:**

H302 Harmful if swallowed.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

H361d Suspected of damaging the unborn child.

**Precautionary statement:**

P102 Keep out of reach of children.

P260 Do not breathe dust/gas/mist/vapours.

P270 Do not eat, drink or smoke when using this product.

P264 Wash with plenty of water and soap thoroughly after handling.

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

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulation.

**Supplemental hazard information (EU): -**

**2.3. Other hazards:**

**Endocrine Disruption- Toxicity** The mixture does not contain components considered to have endocrine disrupting properties.

**Endocrine Disruption- Ecotoxicity**

The mixture does not contain components considered to have endocrine disrupting properties.

**SECTION 3. Composition/information on ingredients**

Substance	Concentration %m/m	EINECS/ CAS	1272/2008 (EC)	REACH reg.nr
Ethylene glycol	60 - 98	203-473-3 /107-21-1	Acute tox. Cat. 4, H302 STOT RE (Kidney) 2, H373	01-2119456816-28-xxxx
Sodium 2-ethylhexanoate	3 - 5	243-283-8 /19766-89-3	Repro.Cat. 2, H361d	-

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

inhalation:	Remove exposed person to fresh air, ask for medical help.
skin contact:	Wash thoroughly with soap and water.
eye contact:	Flush with water at least 15 minutes, ask for medical help.
ingestion:	Rinse mouth immediately and then drink plenty of water, seek medical attention. Administer 150 ml of strong alcoholic beverage such as brandy.

**Notes for physician:** Treatment: Symptomatic treatment (decontamination, vital functions).

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

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to be harmful.

**Ingestion:** Ingestion of ethylene glycol may result in nausea, vomiting, abdominal cramps, liver damage, irritation, nerve damage, convulsions, oedema of the lung, cardiopulmonary effects (metabolic acidosis), pneumonia and kidney failure which could result in death.

**Inhalation:** Not expected to be harmful if inhaled. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

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

## SECTION 5. Firefighting measures

### 5.1 Extinguishing media:

suitable : Foam or alcohol resistant foam, dry chemical powder, carbon dioxide CO<sub>2</sub> (in closed area).

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

A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

**5.3 Advice for firefighters** Self-containing breathing apparatus, personal protective clothing and shoes.

**5.4 Additional information** -

## SECTION 6. Accidental release measures

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

**Personal precautions:** Use suitable protective equipment.

**6.2 Environmental precautions:** Prevent entry into sewers and waterways.

**6.3 Methods and material for containment and cleaning up:** Pick up with absorbent material (sand, sawdust, soil) or with proper equipment. Place spilled material in an appropriate container for disposal.

**6.4 Reference to other sections:** Section 7. 8. i 13.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling

precaution measures : Use suitable protective equipment. Ensure thorough ventilation of stores and work areas.

safe handling advice : Remove inflammable source, avoid contact with strong oxidizing agents. Do not taste or swallow. Do not breathe vapor or fumes. Keep out of the reach of children.

### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

suitable : Store in closed well-ventilated or roofed over warehouse. Recommended storage temperature between -12 and 40 °C. Storage time: 3 years.

to be avoided : Keep away from direct sunlight or any source of ignition and strong oxidants.

Packaging materials:

recommended : Original packaging (containers)

**7.3. Specific end use(s)** : No data.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace control parameters:** ethyleneglycol: 107-21-1

107-21-1: ethanediol; ethylene glycol  
TWA value 52 mg/m<sup>3</sup> ; 20 ppm (OEL (EU))  
STEL value 104 mg/m<sup>3</sup> ; 40 ppm (OEL (EU))

### 8.2 Exposure controls

#### Personal protective equipment:

- respiratory protection: Suitable respiratory protection for higher concentrations or long-term effect: Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C).
- hand protection : Chemical resistant protective gloves (EN 374)  
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness
- eye protection : Safety glasses with side-shields (frame goggles) (EN 166)
- skin and body protection : Use protective clothing and shoes.

#### Specific hygiene and caution measures:

Do not drink, eat and smoke in the workplace, wash hands thoroughly after contact. Do not use contaminated clothing.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

INA Antifriz BS Super	Method	
<b>Form</b>	-	liquid
<b>Colour</b>	-	Red - violet
<b>Odour</b>	-	Faint or Mild
<b>pH</b>	-	8,5 – 8,7 at 20°C
<b>Initial Boiling point, °C, min.:</b>		175°C
<b>Flash point, °C, min.:</b>	Pensky-Martens Closed Cup	115 °C
<b>Lower explosion limit: % vol</b>		No Data Available
<b>Upper explosion limit: % vol</b>		No Data Available

<b>Ignition temperature, °C</b>		No Data Available
<b>Vapour density (Air=1)</b>		2,1
<b>Miscibility with water</b>		miscible in all proportions
<b>Kinematic Viscosity, 20 °C, mm<sup>2</sup>/s</b>		No Data Available
<b>Freezing point, °C</b>		-18

## SECTION 10. Stability and reactivity

<b>10.1 Reactivity:</b>	This material is not expected to react.
<b>10.2 Chemical Stability:</b>	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>10.3 Possibility of hazardous reactions:</b>	No data.
<b>10.4 Condition to avoid:</b>	Avoid high temperature and direct sunlight.
<b>10.5 Incompatible materials:</b>	Strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
<b>10.6 Hazardous decomposition products:</b>	Ketones (Elevated temperatures), Aldehydes (Elevated temperatures)

## SECTION 11. Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute Toxicity:

LD50/dermal/mouse: > 2,000 mg/kg (Literature data - Ethylene glycol).

#### Specific target organ toxicity – single exposure (STOT SE):

Aspiration hazard: No data.

#### Irritation and corrosion:

**Skin:** In case of contact with skin, irritation is not expected, except in prolonged contact which might cause redness.

**Eyes:** In case of contact with eyes only slight irritation is expected.

**Sensitization** No data.

Skin sensitization: No data.

Respiratory sensitization: No data.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Repeated dose toxicity (subacute, subchronic, chronic):**

**Chronic effect:**

Convulsions. Dizziness. Nausea, vomiting. Abdominal pain. Oedema. Prolonged exposure may cause chronic effects.

Harmful if swallowed.

Consciousness is affected, kidney damage, damage to the central nervous system.

Lethal dose if swallowed approx. 1,2 - 1,5 g/kg body weight (Ethylene glycol).

**Specific target organ toxicity – repeated exposure (STOT RE):**

**CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)**

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Carcinogenicity:

No data.

Mutagenicity in-vitro:

No data.

Genotoxicity:

No data.

Mutagenicity in-vivo:

No data.

Germ cell mutagenicity :

No data.

Reproductive toxicity:

Suspected of damaging the unborn child.

**11.2. Information on other hazards:**

**11.2.1. Endocrine disrupting properties:**

No data available.

**SECTION 12. Ecological information**

**12.1 Toxicity:**

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

**12.2 Persistence and degradability**

This material is expected to be readily biodegradable. The product has not been tested. The statement has been derived from the properties of the individual components.

Abiotic degradation

No data available

Biodegradation

No data available

**12.3 Bioaccumulative potential:**

No data available.

Octanol/Water Partition Coefficient:

No data available

Bioconcentration factor (BCF)

No data available

Chronic ecotoxicity

No data available.

**12.4 Mobility in soil**

No data available.

**Known or predicted distribution in environmental compartments:** No data available.

<b>Surface tension:</b>	No data available.
<b>Adsorption/desorption:</b>	No data available.
<b>12.5 Results of PBT and vPvB assessment</b>	This product is not, or does not contain, a substance that is a potential PBT or a vPvB.
<b>12.6. Endocrine disrupting properties</b>	No data available.
<b>12.7. Other adverse effects</b>	No data available.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

waste from residues : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

contaminated packaging : Packaging must be disposed of in accordance with federal, state and local environmental control regulations.

**Local disposal regulations:** Accordance with local regulations.

## SECTION 14. Transport information

### Transporting/shipment by road (ADR)

UN number or ID number:	Not classified as hazardous for transport.
UN proper shipping name:	Not classified as hazardous for transport.
Transport hazard class(es):	Not classified as hazardous for transport.
Packing group:	Not classified as hazardous for transport.
Environmental hazards:	Not classified as hazardous for transport.
Special precautions for user:	Not classified as hazardous for transport.

### Transporting/shipment by rail (RID)

UN number:	Not classified as hazardous for transport.
UN proper shipping name:	Not classified as hazardous for transport.
Transport hazard class(es):	Not classified as hazardous for transport.
Packing group:	Not classified as hazardous for transport.
Environmental hazards:	Not classified as hazardous for transport.
Special precautions for user:	Not classified as hazardous for transport.

### Transporting/shipment by inland waterways (ADN)

UN number or ID number:	Not classified as hazardous for transport.
UN proper shipping name:	Not classified as hazardous for transport.
Transport hazard class(es):	Not classified as hazardous for transport.
Packing group:	Not classified as hazardous for transport.
Environmental hazards:	Not classified as hazardous for transport.



Special precautions for user: Not classified as hazardous for transport.

Transporting/shipment by sea (IMDG)

UN number or ID number: Not classified as hazardous for transport.

UN proper shipping name: Not classified as hazardous for transport.

Transport hazard class(es): Not classified as hazardous for transport.

Packing group: Not classified as hazardous for transport.

Environmental hazards: Not classified as hazardous for transport.

Special precautions for user: Not classified as hazardous for transport.

Maritime transport in bulk according to IMO instruments: Not classified as hazardous for transport.

Transporting/shipment by air (ICAO-TI/IATA-DGR)

UN number or ID number: Not classified as hazardous for transport.

UN proper shipping name: Not classified as hazardous for transport.

Transport hazard class(es): Not classified as hazardous for transport.

Environmental hazards: Not classified as hazardous for transport.

Special precautions for user: Not classified as hazardous for transport.

Further information:

## SECTION 15. Regulatory information

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

**Applicable regulations:** EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation  
Substances of very high concern**

None of the components are listed.

**15.2. Chemical safety assessment**

No data.

## SECTION 16. Other information

### 16.1. Indication of changes:

Harmonization in accordance with COMMISSION REGULATION (EU) 2020/878.

### 16.2. Abbreviations and acronyms:

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

**16.3.Key literature references and source of data:**

<http://echa.europa.eu/>

**16.4.Relevant H statements (number and full text)**

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

**16.5.Training advice:**

**16.6. Further information:**

These safety-technical data refer to this product only and to the usual hazards known to the producer on this very date

**ANNEX: Exposure scenario resulting to Chemical safety assessment**

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