

According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

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

1.1. Product identifier

Product name : BAR'S RADIATOR STOP LEAK POWDER

Product code : RHZ1M20

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

Application : SU21 Consumer product. PC0 Other. Engine maintenance.

1.3. Details of the supplier of the safety data sheet

Supplier : Bar's Products Europe, B.V.

Westelijk Halfrond 487

1183 JD Amstelveen, The Netherlands

 Telephone
 : +31-20-7989301

 Fax
 : +31-20-798 93 02

 E-mail
 : Main@barsgroup.com

 Website
 : www.barseurope.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31-20-7989301 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44-844 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Skin irritation, category 2. Eye irritation, category 2. Skin sensitization, category 1.

(1272/2008/EC)

Human health hazards : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Physical/chemical hazards : Not classified as dangerous according to statutory EC-Directives. Environmental hazards : Not classified as dangerous according to statutory EC-Directives.

2.2. Label elements

Label elements (1272/2008/EC):

Hazard pictograms



Signal word : Warning

H- and P-phrases : H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 dust Avoid breathing dust.

Product name : Bar's Radiator Stop Leak Powder Page 1/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

P280 hands Wear protective gloves and eye protection.

eyes

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

+ P338 lenses, if present and easy to do. Continue rinsing.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Labelling of packagings where the contents do not exceed 125 ml:

Hazard pictograms

P305 + P351

Signal word : Warning

H- and P-phrases : H317 May cause an allergic skin reaction.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P260 dust Avoid breathing dust.

P280 hands Wear protective gloves and eye protection.

eyes

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

 $: \ \ Contains: 2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl) trie than ol.$

: 7 per cent of the mixture consists of component(s) of unknown acute toxicity. Contains 56 % of

components with unknown hazards to the aquatic environment.

2.3. Other hazards

Other information : Does not contain PBT or vPvB substances.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration	CAS nr.	EC number	Remark	REACH nr.
	(w/w) (%)				
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-	0,1 - < 1	4719-04-4	225-208-0		
triyl)triethanol					
Potassium carbonate	1 - < 5	584-08-7	209-529-3		
Curcumin	5 - < 10	458-37-7	207-280-5		

Substance name	Hazard Class	H-phrases	Pictograms	
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-	Acute Tox. 4; Acute	H302; H330; H317;	GHS06; GHS07;	H317 : C ≥ 0.1 %
triyl)triethanol	Tox. 2; Skin Sens. 1;	H372	GHS08	
	STOT RE 1			

Product name : Bar's Radiator Stop Leak Powder : Page 2/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Potassium carbonate

Skin Irrit. 2; Eye Irrit. 2; H315; H319; H335

STOT SE 3

Curcumin

Skin Irrit. 2; Eye Irrit. 2; H315; H319; H335

GHS07

GHS07

STOT SE 3

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries

up. Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a doctor. Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth

to an unconscious person. Consult a doctor if victim feels unwell.

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

Effects and symptoms

Inhalation : May cause irritation to respiratory airways and coughing.

Skin contact : Irritant. May cause redness and irritation, sensitisation. May produce an allergic reaction.

Eye contact : Irritant. May cause redness and pain.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

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

Note to physicians : None known.

SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Foam. Dry chemical. Water fog.

Not suitable : None known.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Product name : Bar's Radiator Stop Leak Powder Page 3/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with

spilled or released material. Do not breathe dust.

6.2. Environmental precautions

Environmental precautions: Avoid release of product into sewers, surface water and/or ground water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Dispose at an authorised waste collection point. Wash away

remainder with plenty of water and soap.

6.4. Reference to other sections

Reference to other sections: See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C).

Recommended packaging : Keep only in the original container.

Non recommended : Steel (except stainless steel).

packaging

limits

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure

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: Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have

not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour	STEL 15 min	Comments
		(mg/m3)	(mg/m3)	
Potassium carbonate		0,5	-	

Derived no-effect level (DNEL) for workers:

Chemical name	Route of	DNEL, short-term		DNEL, long-term	
	exposure				
		Local effect	Systemic effect	Local effect	Systemic effect
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	Inhalation			0,2 mg/m3	
Potassium carbonate	Dermal			16 mg/kg bw/day	
	Inhalation			10 mg/m3	

Product name : Bar's Radiator Stop Leak Powder : Page 4/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of	DNEL, short-term		DNEL, long-term		
	exposure					
		Local effect	Systemic effect	Local effect	Systemic effect	
Potassium carbonate	Dermal			8 mg/kg bw/day		
	Inhalation			10 mg/m3		

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-	Water	0,0066 mg/l	0,00066 mg/l	
triyl)triethanol				
	Sediment	0,0304 mg/kg	0,00304 mg/kg	
	Intermittent water			0,066 mg/l
	STP			5,5 mg/l
	Soil			0,00219 mg/kg

8.2. Exposure controls

Engineering measures : Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

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Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN

365/367 resp. 345. Suitable material: neoprene. Indication of permeation breakthrough time: 4

hours.

Respiratory protection: Take care of sufficient ventilation. Suitable: dust mask type FFP1 or higher, in accordance with EN

149.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: neoprene. ± 0,5 mm.

Indication of permeation breakthrough time: 4 hours.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is

danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance : Solid.
Colour : Brown.
Odour : Odourless.

Odour threshold : Not applicable. Odourless. pH : 2 - 11.5 10% solution.

Solubility in water : Dispersible.
Partition coefficient : Not known.

(n-octanol/water)

Flash point : Not relevant. Solid.

Flammability (solid, gas) : Not flammable. Not easily ignitable.

Auto ignition temperature : Not known. Does not contain substances with a known auto ignition temperature.

Boiling point/boiling range : 100 °C

Product name : Bar's Radiator Stop Leak Powder Page 5/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Melting point/melting range: 0 °C

Explosive properties : None known. Does not contain explosives.

Explosion limits (% in air) : Not applicable.

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature: Not applicable.

Viscosity (20°C) : Not applicable. Solid. Vapour pressure (20°C) : Very low. Solid.

Vapour density (20°C) : Not applicable. The solvent content of this product is less than 1%.

Relative density (20°C) : 1,5 g/ml

Evaporation rate : Very low. Solid.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : No specific recommendations.

10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: 16 %. ATE: > 5 mg/l. Not classified -

based on available data, the classification criteria are not met. No specific effects and/or symptoms

are known.

Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data,

the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Product name : Bar's Radiator Stop Leak Powder : Page 6/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 7 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Irritant. May cause redness.

Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Eye contact

Corrosion/irritation : Irritant.

Ingestion

Acute toxicity : Calculated LD50: > 3308 mg/kg.bw. Ingredients of unknown toxicity: 7 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain

substances with an aspiration hazard.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the

classification criteria are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available

data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
2,2',2"-(hexahydro-1,3,5-triazine-1,3,5-	NOAEL (development,	750 mg/kg bw/d		Rat
triyl)triethanol	oral)			
	Genotoxicity - in vivo	Not genotoxic	OECD 486	Rat
	NOAEL (inhalation)	30 mg/m3	OECD 412	Rat
	NOAEL (oral)	64,1 mg/kg bw/d	OECD 408	Rat
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Skin irritation	Non-irritant	OECD 404	Rabbit
	LD50 (dermal)	> 4000 mg/kg bw	OECD 402	Rat
	LC50 (inhalation)	371 mg/m3	OECD 403	Rat
	Skin sensitisation	Sensitizing.		Guinea pig
	NOEL (carcinogenicity)	Not carcinogenic		Mouse
	- estimate			
	LD50 (oral)	1000 mg/kg bw	OECD 401	Rat
Potassium carbonate	NOAEL (development,	> 180 mg/kg bw/d	OECD 414	Rat
	oral)			
	Skin irritation	Irritant	OECD 404	Rabbit
	LD50 (oral)	> 2000 mg/kg bw	OECD 401	Rat
	LC50 (inhalation)	> 3820 mg/m3		Rat
	NOEL (carcinogenicity)	2861 mg/kg.d	Read across	Rat
	- estimate			
	NOAEL (oral) -	2667 mg/kg bw/d	Read across	Rat
	estimate			
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vitro	Not genotoxic	OECD 473	
	Eye irritation	Irritant	OECD 405	Rabbit
	Skin sensitisation	Not sensitizing	OECD 406	Guinea pig
	LD50 (dermal)	> 2000 mg/kg bw	 	Rabbit
		> 180 mg/kg bw/d	OECD 414	Rat
Curcumin	Mutagenicity	Negative		

Product name : Bar's Radiator Stop Leak Powder : Page 7/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

NOAEL (developm	nent, 250 mg/kg bw/d	 Rat	
oral)			
NOAEL (oral)	1300 mg/kg bw/d	 Rat	
LD50 (oral)	> 2000 mg/kg bw	 	

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 1344 mg/l. Calculated EC50 (waterflea): 2491 mg/l. Contains 56 % of

components with unknown hazards to the aquatic environment. Not classified - based on available

data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability: No specific information known. The surfactants contained in this preparation do not comply with the

biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents. This product shall

not be used in cleaners. Inorganic salt.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Little chance of penetration of spilled product into the ground and surface water.

12.5. Results of PBT and vPvB ass

PBT/vPvB assessment : Does not contain PBT or vPvB substances.

12.6. Other adverse effects

Other information : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as hazardous waste.

Additional warning : None.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a

waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

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

Local regulations may be more stringent than regional or national requirements and must be

complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number

UN nr. : None.

14.2. UN proper shipping name

Product name : Bar's Radiator Stop Leak Powder : Page 8/10
Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

Transport name : Not regulated.

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : This product is not classified according to ADR/RID/ADN.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

14.6. Special precautions for user

Other information : Country specific variations may apply.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

Community regulations : Regulation (EU) No 2015/830 (REACH), Regulation (EC) No 1272/2008 (CLP) and other

regulations.

15.2. Chemical safety assessment

Chemical safety : Not applicable.

assessment

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2015/830 dated 28 May 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE : Acute Toxicity Estimate

CLP : Classification, Labeling & Packaging

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

EEC : European Economic Community

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

IATA : International Air Transport Association
IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code

Product name : Bar's Radiator Stop Leak Powder : Page 9/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS



According to Regulation (EU) No 2015/830

Bar's Radiator Stop Leak Powder

LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MAC : Maximum Allowable Concentration

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative and Toxic

PC : Chemical product category

PT : Product type

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

SU : Sector of Use

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Skin Irrit. 2 : Calculation method. Eye Irrit. 2 : Calculation method. Skin Sens. 1 : Calculation method.

Full text of hazard classes mentioned in section 3:

Acute Tox. 2 : Acute toxicity, Hazard Category 2.

Acute Tox. 4 : Acute toxicity, category 4.

Skin Irrit. 2 : Skin irritation, category 2.

Eye Irrit. 2 : Eye irritation, category 2.

Skin Sens. 1 : Skin sensitization, category 1.

STOT SE 3 : Specific target organ toxicity after single exposure, category 3. STOT RE 1 : Specific target organ toxicity — repeated exposure, category 1.

Full text of H-phrases mentioned in section 3:

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

Number format : "," used as decimal separator.

End of safety data sheet.

Product name : Bar's Radiator Stop Leak Powder Page 10/10

Date of issue : 02-02-2018 Replaces issue dated : --- INFO CARE SDS