

Bar's Products International, Ltd.
1225 W 190th Street, Suite #250
Gardena, California 90248



Safety Data Sheet

This SDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Bar's Products International, Ltd. considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals. For chemical emergencies, spills, leaks, fire or exposure call 800-255-3924 Outside USA 001-1-813-248-0585(CHEMTEL).

All non-emergency questions should be directed to Bar's Products International, Ltd. customer service at: Phone:
(310) 515-5096 Fax: (310) 715-6763 for assistance.

Bar's Radiator Stop Leak

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier: Radiator Stop Leak

Product Code: R2/C4

1.2 Relevant identified uses of the substance or mixture:

General Maintenance

1.3 Details of the supplier of the safety data sheet:

This Safety Data Sheet has been updated in accordance with the Global Harmonized System (GHS)

Manufacturer/Supplier:

Bar's Products International, Ltd.

1225 W 190th Street, Suite #250

Gardena, California 90248

Factory: (310) 515-5096

Information Department:

SDS Coordinator (310) 515-5096

1.4 Emergency telephone number:

800-255-3924 Outside USA 001-1-813-248-0585(CHEMTEL)

2. Hazards Identification

2.1 Classification of the Chemical:

Semi-translucent, brown liquid



GHS07

Most Relevant Hazards: This material is classified as non-hazardous under OSHA regulations (29CFR 1910.1200) (HAZCOM 2012).

Hazards Classification:

Skin Irritant – Category 2

Eye Irritant – Category 2

2.2 Label Elements:

According to EC Regulation No. 1272/2008(EC):

Signal Word:

Warning

Hazard Statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

Precautionary Statements:

P101 If medical advice is needed, make available to the container or the label of the product

P102 Keep out of reach of children.

P280 Wear protective gloves and eye protection during use.

P305+P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing

P337+P313 If eye irritation persists, consult a doctor advice/attention.

Hazard Pictograms:



GHS 07

2.3 Other Hazards Not Otherwise Classified:

No data available

3. Composition/Information on Ingredients

3.1 Substances- Not applicable

3.2 Mixture

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Symbols	R-phrases
Soluble Oil	70%	64742-58-1			
Curcumin	<6%	458-37-7	207-280-5	Xi	36/37/38
Potassium carbonate	<2%	584-08-7	209-529-3	Xi	36/37/38
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	<2%	4719-04-4	225-208-0	Xn	22-43
Grotan	<2%	63310-09-8			

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

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

Substance name	REACH nr.	Hazard Class	Pictograms	H-phrases
Soluble Oil				
Curcumin		Skin Irrit. 2; Eye Irrit. 2; STOT SE 3	GHS07	H315; H319; H335
Potassium carbonate	01-2119532646-36	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3	GHS07	H315; H319; H335
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	01-2119529226-41	Acute Tox. 4; Acute Tox. 2; Skin Sens. 1; STOT RE 1	GHS06; GHS07; GHS08	H302; H330; H317; H372
Grotan				

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

*Exact concentrations are withheld to protect the proprietary value of the formula/product.

4. First Aid Measures

4.1 Description of first aid measures

First aid measures

General Advice: In case of accident or if you feel ill, seek medical attention.

Inhalation: Move the victim to fresh air.

Skin contact: Remove contaminated clothing. Wash skin immediately with soap and water. If skin irritation persists, seek medical attention.

Eye contact: Rinse thoroughly with water for at least 15 minutes. Seek medical attention if pain, blinking, tearing and redness

Ingestion: persist.
Do not induce vomiting. Rinse mouth, give one glass of water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation: No specific effects and/or symptoms are known.
Skin contact: Irritant. Prolonged contact may cause redness and irritation. May produce an allergic reaction. May cause dry skin.
Eye contact: Irritant. May cause stinging or redness.
Ingestion: Not harmful if swallowed in small doses. May cause a feeling of sickness, vomiting and diarrhea in larger quantities.

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

Note to physician: None known.

5. Fire Fighting Measures

5.1. Extinguishing media: Carbon dioxide (CO₂), foam, dry chemical or water fog.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards: There is no risk of fire/explosion under normal conditions of use. Combustion generates: CO, CO₂.

Hazardous thermal

decomposition products: Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

Precautionary measures

in case of fire: Do not enter fire area without proper protective equipment, including respiratory.

Fire-fighting instructions: Use water spray or water fog to cool exposed containers.

Special protective equipment

For fire-fighters: Use breathing apparatus and protective clothing.

Other Information: Avoid release into the environment. Collect in suitable container and labeled, and disposed of in accordance with the applicable laws and regulations.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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 clean up

Methods for clean-up: Collect spilled material in containers. Dispose at an authorized waste collection point. Wash away remainder with plenty of water.

6.4. Reference to other sections: See also section 8

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 storage, including any incompatibilities:

Storage: Store in a cool, dry and well-ventilated area (>35°C)

Recommended packaging: Keep only in the original container.

Non recommended

packaging: Steel (except stainless steel)

7.3. Specific end use(s):

Use: Use only as directed

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Occupational exposure limits: 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 (mg/m ³)	STEL 15 min (mg/m ³)	Comments
Potassium carbonate		2	-	MAC: LT

Derived no-effect level (DNEL) for workers:

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

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Potassium carbonate	Dermal			8 mg/kg bw/day	
	Inhalation			10 mg/m ³	

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- triyl)triethanol	Water	0,0066 mg/l	0,00066 mg/l	0,066 mg/l
	Sediment	0,0304 mg/kg	0,00304 mg/kg	5,5 mg/l
	Intermittent water			0,00219 mg/kg
	STP Soil			

8.2. Exposure controls

Engineering measures:

Use in well-ventilated area. 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.

Body protection:

Wear appropriate protective clothing, overalls or suit and similar boots in accordance with EN 365/367 resp. 345. Suitable material: neoprene of permeation breakthrough time: 4 hours.

Respiratory Protection:

Take care of sufficient ventilation.

Skin 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.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Brown
Odor:	Characteristic
Odor Threshold:	Not known.
pH:	Neutral
Solubility in Water:	Complete
Partition coefficient (n-octanol/water):	Not known.
Flash point :	>300°F (COC) Vapors could ignite if heated above FP
Auto ignition temperature:	Not applicable.
Boiling point/boiling range:	>500 °F
Explosive properties:	None known. Does not contain explosives
Explosion limits (in air):	Not applicable.
Oxidizing properties:	Not applicable. Does not contain oxidizing substances
Decomposition temperature:	Not applicable.
Vapor pressure (20°C) :	<.01mm Hg
Vapor density (Air=1) :	>5
Relative density (20°C):	1.5 g/ml
Specific Gravity:	.80 to .90
Evaporation rate (water=1):	<.01

10. Stability and Reactivity

10.1. Reactivity: This product will not react violently with water.

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: Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hyperchlorite, etc. as this presents a serious explosion hazard.

10.6. Hazardous decomposition products

Hazardous decomposition Products: Not known.

11. Toxicological Information

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity:	Not applicable.
Corrosion/irritation:	No specific effects and/or symptoms are known. Not classified - based on available data, the classification criteria are not met.
Sensitization:	Does not contain respiratory sensitizers. 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

Acute toxicity:	Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: 16 %. 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
Sensitization:	May cause sensitization 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.
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Ingestion

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:	May cause a feeling of sickness, vomiting and diarrhea. 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.

Toxicological information:

Curcumin	Mutagenicity	Negative	-----	-----
Potassium carbonate	NOAEL (development, oral) NOAEL (oral) LD50	250 mg/kg bw/d	-----	-
	(oral) Skin irritation	1300 mg/kg bw/d	-----	Rat
	LD50 (oral)	> 2000 mg/kg bw	-----	Rat
	LC50 (inhalation)	Irritant	OECD 404	-----
	NOEL	> 2000 mg/kg bw	OECD 401	Rabbit
	(carcinogenicity) - estimate	> 3820 mg/m ³	-----	Rat
	NOAEL (oral) - estimate	2861 mg/kg.d	Read across	Rat
	Mutagenicity Genotoxicity - in vitro	2667 mg/kg bw/d	Read across	Rat
	Eye irritation	Negative	OECD 471	Rat
	Skin sensitisation	Not genotoxic	OECD 473	Salmonella typhimurium
	LD50 (dermal)	Irritant	OECD 405	
		Not sensitizing	OECD 406	Rabbit
		> 2000 mg/kg bw	-----	Guinea Pig
	NOAEL (development, oral)	> 180 mg/kg bw/d	OECD 414	Rabbit
	NOAEL (development, oral)	> 180 mg/kg bw/d	OECD 414	Rat
	Genotoxicity - in vivo	750 mg/kg bw/d		Rat
	NOAEL (inhalation)	Not genotoxic	OECD 486	Rat
	NOAEL (oral)	30 mg/m ³	OECD 412	Rat
	Eye irritation	64,1 mg/kg	OECD 408	Rat
	Skin irritation	bw/d Slightly	OECD 405	Rat
	LD50 (dermal)	irritant Non-	OECD 404	Rabbit
	LC50 (inhalation)	irritant	OECD 402	Rabbit
		> 4000 mg/kg bw	OECD 403	Rat
	Skin sensitisation	371 mg/m ³	-----	Rat
	NOEL (carcinogenicity) estimate	Sensitizing.	-----	Guinea pig
	LD50 (oral)	Not carcinogenic	OECD 401	Mouse
		1000 mg/kg bw		Rat

12. Ecological Information

12.1. Toxicity

No Eco toxicological research has been carried out on this product.

Eco toxicity: Calculated LC50 (fish): 1356 mg/l. Calculated EC50 (water flea): 2488 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:

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.

12.3. Bioaccumulation

Potential: No specific information known.

12.4. Mobility in Soil: 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

Other information: Not applicable

13. Disposal Considerations

13.1. Waste treatment methods

Product residues: Do not dispose empty pack with waste produced by households. Containers should be recycled or re-used. Treat product residues and non-empty pack as hazardous waste.

Additional warning: None.

Waste water discharge: Avoid discharge of waste water arising from tank cleaning to the environment.

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.

14. Transport Information

14.1. UN number

UN number: None.

14.2. UN proper shipping name

Transport name Not regulated.

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

ADR/RID (road / railway)

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

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 Organization (IMO) instruments. Packaged liquids are not considered bulk.

15. Regulatory Information

15.1. Safety, health and environmental regulation specific for the substance or mixture

Community regulations: Regulation(EC) No 453/2010(REACH),Regulation(EC) No 1272/2008(CLP) and other regulations.

15.2. Chemical safety assessment

Chemical safety assessment: Not applicable

16. Other Information

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EC) No 453/2010 dated 20 May 2010 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 (*).

Full text of R-phrases mentioned in section 3:

R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

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.

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.

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
IATA:	International Air Transport Association
IBC code:	International Bulk Chemical Code
IMDG:	International Maritime Dangerous Goods Code
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:	Organization for Economic Co-operation and Development
PBT:	Persistent, Bioaccumulative and Toxic
PC:	Chemical product category
PT:	Product type
REACH:	Registration, Evaluation, Authorization 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

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Prepared by: Bar's Products International , Ltd.

*Effective Date: 04/20/15 * * * * * Supersedes: N/A*

