

# Phenylbutazone Formulation

Version 6.0	Revision Date: 06.07.2024		S Number: 3808-00021	Date of last issue: 06.04.2024 Date of first issue: 12.05.2016
SECTION	1. IDENTIFICATION			
Produ	Product name		Phenylbutazone	Formulation
Manu	ifacturer or supplier's	s deta	ils	
Comp	bany	:	MSD	
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP
Telep	hone	:	908-740-4000	
Emer	gency telephone	:	1-908-423-6000	
E-ma	il address	:	EHSDATASTEV	VARD@msd.com
Reco	mmended use of the	chem	ical and restricti	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	uct

#### **SECTION 2. HAZARDS IDENTIFICATION**

<b>GHS Classification</b> Acute toxicity (Oral)	:	Category 4
Serious eye damage/eye irritation	:	Category 2A
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H302 Harmful if swallowed. H319 Causes serious eye irritation.
Precautionary Statements	:	<b>Prevention:</b> P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/ face protection.
		Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water



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		easy to do. Co	nutes. Remove contact lenses, if present and ontinue rinsing. If eye irritation persists: Get medical advice/ at-			
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved was disposal plant.				
Addi	tional Labeling					
	The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 20 %					
Othe	r hazards which do r	not result in classific	ation			
	Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.					

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

••••••		
Chemical name	CAS-No.	Concentration (% w/w)
Oils, sesame	8008-74-0	>= 70 -< 90
Phenylbutazone	50-33-9	>= 20 -< 30
Ascorbic acid	50-81-7	>= 1 -< 5

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.
		Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap.
		Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water
		for at least 15 minutes.
		If easy to do, remove contact lens, if worn.
		Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting unless directed to do
		so by medical personnel.
		Get medical attention.
		Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms		Harmful if swallowed.
and effects, both acute and	•	Causes serious eye irritation.
delayed		Contact with dust can cause mechanical irritation or drying of
		the skin.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,
		and use the recommended personal protective equipment
		when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.



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Section 5. FIRE-FIGHTING MEASE         Suitable extinguishing media         Unsuitable extinguishing         media         Specific hazards during fire         fighting         Hazardous combustion prod-         ucts         Specific extinguishing methods			Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical None known. Exposure to combustion products may be a hazard to health. Carbon oxides Nitrogen oxides (NOx) Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do		
fo	Special protective equipment for fire-fighters				e, wear self-contained breathing apparatus. ective equipment.
P	ersona ve equ	al precautions, protec- ipment and emer- procedures		Use personal prot Follow safe handl	ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
E	nviron	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	container for disp Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the of determine which in Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

#### SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding
		r tovide adoquato probatilono, odon ao orotinoal grounding



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	I/Total ventilation be on safe handling	: Use o : Do no Do no Avoid Wash Handl practic asses Minim Keep Keep Take J Do no Take o	nly with add breathe d swallow. get in eye prolonged skin thorou in accord ce, based c sment ze dust ge container c away from precautiona t eat, drink	
Conc	litions for safe storage	: Keep	n properly	labeled containers. nce with the particular national regulations.
Mate	rials to avoid	: Do no		the following product types:

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oils, sesame	8008-74-0	CMP (Mist)	10 mg/m <sup>3</sup>	AR OEL
Phenylbutazone	50-33-9	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm <sup>2</sup>	Internal
Ascorbic acid	50-81-7	TWA	5000 µg/m3 (OEB 1)	Internal

#### Ingredients with workplace control parameters

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipmen	t
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type :	Particulates type
Hand protection	
Material :	Chemical-resistant gloves
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough



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		For special ap resistance to c gloves with the	ermined for the product. Change gloves often! plications, we recommend clarifying the hemicals of the aforementioned protective glove manufacturer. Wash hands before the end of workday.			
Eye protection		: Wear the following personal protective equipment: Safety goggles				
Skin and body protection		: Select appropr resistance data potential.	: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure			
		0.0	s, aprons, boots, etc).			
Hygie	ne measures	<ul> <li>If exposure to chemical is likely during typical use, proview eye flushing systems and safety showers close to the working place.</li> </ul>				
		•	o not eat, drink or smoke.			
		Wash contami	nated clothing before re-use.			

Appearance	:	paste
Color	:	white
Odor	:	citrus
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	No data available



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Par octa Aut	ubility(ies) Water solubility tition coefficient: n- anol/water oignition temperature composition temperature	:	No data available No data available No data available No data available	9
Vise	cosity Viscosity, kinematic	:	No data available	9
Exp	Explosive properties		Not explosive	
	dizing properties	:		r mixture is not classified as oxidizing.
	ecular weight	:	No data available	9
	ticle characteristics ticle size	:	No data available	9

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during proce handling or other means. Can react with strong oxidizing agents.	ssing,
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	Oxidizing agents	
Hazardous decomposition products	No hazardous decomposition products are known	٦.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity Harmful if swallowed.		
Product: Acute oral toxicity	:	Acute toxicity estimate: 1.225 mg/kg Method: Calculation method
Components:		
<b>A'</b> 1		

#### Oils, sesame:



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	Acute oral toxicity Acute dermal toxicity		:	LD50 (Rat): > 2.0 Remarks: Based (	00 mg/kg on data from similar materials
			:	LD50 (Rabbit): > 2	2.000 mg/kg
	-	Ibutazone:			
	Acute	oral toxicity	:	LD50 (Rat): 245 n	ng/kg
				LD50 (Mouse): 23	38 mg/kg
				LD50 (Dog): 332	mg/kg
		bic acid:			
	Acute	oral toxicity	:	LD50 (Rat): 11.90	00 mg/kg
	Skin corrosion/irritation Not classified based on availal		ble	information.	
	<u>Comp</u>	onents:			
	Oils, sesame:				
	Specie	S	:	Rabbit	
	Result	Result		No skin irritation	
	Ascor	bic acid:			
	Specie		:	Rabbit	lin - 404
	Methoo Result		÷	OECD Test Guide No skin irritation	eine 404
	Seriou	is eye damage/eye irri	tati	on	
		s serious eye irritation.	lali		
	Comp	onents:			
	Oils, s	esame:			
	Specie	S	:	Rabbit	
	Result		:	No eye irritation	
	Pheny	Ibutazone:			
	Specie Result	S	:	Rabbit	reversing within 21 days
	Result		:	milation to eyes,	reversing within 21 days
	Ascor	bic acid:			
	Specie	S	:	Rabbit	
	Result Method	d	:	No eye irritation OECD Test Guide	eline 405



ersion .0	Revision Date: 06.07.2024	SDS Number: 673808-00021	Date of last issue: 06.04.2024 Date of first issue: 12.05.2016
Resp	iratory or skin sens	itization	
	sensitization lassified based on av	ailable information.	
-	<b>iratory sensitizatio</b> r lassified based on av		
Com	ponents:		
Oils,	sesame:		
Test Route Resu	es of exposure	: Human repea : Skin contact : negative	at insult patch test (HRIPT)
Asco	orbic acid:		
Test Route Speci Resu	es of exposure ies	: Maurer optim : Skin contact : Guinea pig : negative	nisation test
	n cell mutagenicity lassified based on av	ailable information.	
Com	ponents:		
	sesame:		
Geno	otoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Phen	ylbutazone:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: positi	hromosome aberration test in vitro ve
		Test Type: In malian cells Result: nega	i vitro sister chromatid exchange assay in mam- tive
		Test Type: C Result: nega	hromosomal aberration tive
Geno	otoxicity in vivo	cytogenetic a Species: Mor	use Route: Ingestion
		Species: Mor	Coute: Intraperitoneal injection



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		Species: M	Route: Ingestion		
	cell mutagenicity -		Weight of evidence does not support classification as a ge cell mutagen.		
Asco	rbic acid:				
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative		
		Test Type: Result: neg	In vitro mammalian cell gene mutation test gative		
		Test Type: Result: neç	Chromosome aberration test in vitro gative		
Geno	toxicity in vivo	cytogenetic Species: M			
		Result: neg			
Not c	nogenicity lassified based on avai	Result: neg	gative		
Not c <u>Com</u>	lassified based on avai ponents:	Result: neg	gative		
Not c <u>Com</u> Phen Speci Applie	lassified based on avai <u>ponents:</u> ylbutazone: les cation Route sure time	Result: neg	gative		
Not c Com Phen Speci Applie Expos Resu Speci Applie	lassified based on avai <u>ponents:</u> ylbutazone: les cation Route sure time lt les cation Route sure time	Result: neg lable information. : Rat : Ingestion : 103 weeks	gative		
Not c <u>Com</u> Phen Speci Applie Expos Resu Speci Applie Expos Resu	lassified based on avai <u>ponents:</u> ylbutazone: les cation Route sure time lt lt les cation Route sure time lt nogenicity - Assess-	Result: neg lable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive	gative		
Not c <u>Com</u> Phen Speci Applie Expos Resu Speci Applie Expos Resu Carci ment	lassified based on avai <u>ponents:</u> ylbutazone: les cation Route sure time lt lt les cation Route sure time lt nogenicity - Assess-	Result: neg lable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of e	gative		

### Reproductive toxicity

Not classified based on available information.



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<u>Com</u>	ponents:			
Pher	nylbutazone:			
Effects on fetal development		:	Species: Rat Application Route	o-fetal development : Ingestion city.: NOAEL: 42 mg/kg body weight
			Test Type: Embry Species: Rabbit Application Route Result: negative	o-fetal development : Ingestion
			Species: Rabbit Application Route	o-fetal development : Ingestion city.: NOAEL: 60 mg/kg body weight
Asco	orbic acid:			
Effec	cts on fetal development	:	Test Type: Embry Species: Rat Application Route	o-fetal development
			Result: negative	
	<b>T-single exposure</b> classified based on availa	able i	Result: negative	
Not o STO			Result: negative	
Not o <b>STO</b> Not o	classified based on availa		Result: negative	
Not o STO Not o Repo	classified based on availa <b>T-repeated exposure</b> classified based on availa		Result: negative	
Not o STO Not o Repo	classified based on availa T-repeated exposure classified based on availa eated dose toxicity		Result: negative	
Not of STO Not of Repo Com Pher Spec NOA LOA Appl Expo	classified based on availa <b>T-repeated exposure</b> classified based on availa <b>eated dose toxicity</b> <b>ponents:</b> <b>nylbutazone:</b> cies EL EL ication Route bsure time et Organs		Result: negative nformation. nformation. Rat 50 mg/kg 100 mg/kg Ingestion 13 Weeks Kidney	r observed in testing
Not of STO Not of Repo Com Pher Spec NOA LOA Appl Expo Targ Rem Spec NOA Appl	classified based on availa <b>T-repeated exposure</b> classified based on availa <b>eated dose toxicity</b> <b>ponents:</b> <b>hylbutazone:</b> cles LEL EL ication Route osure time et Organs arks cles		Result: negative nformation. nformation. Rat 50 mg/kg 100 mg/kg Ingestion 13 Weeks Kidney	
Not of STO Not of Repo Com Pher Spec NOA LOA Appl Expo Rem Spec NOA Appl Expo	classified based on availa <b>T-repeated exposure</b> classified based on availa <b>eated dose toxicity</b> <b>ponents:</b> <b>nylbutazone:</b> cies LEL ication Route osure time et Organs arks cies LEL ication Route osure time bit cation Route osure time		Result: negative nformation. nformation. nformation. Rat 50 mg/kg 100 mg/kg Ingestion 13 Weeks Kidney Significant toxicity Mouse 150 mg/kg Ingestion	



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Exposure time		:	13 Weeks	
Not class	on toxicity ified based on availa ECOLOGICAL INFO			
Ecotoxic <u>Compon</u>	-			
Phenylb				
Ecotoxic	cology Assessment uatic toxicity	:	Toxic effects car	not be excluded
Chronic a	aquatic toxicity	:	Toxic effects car	not be excluded
Ascorbio	acid:			
Toxicity t		:	Exposure time: 9	chus mykiss (rainbow trout)): 1.020 mg/l 6 h <sup>-</sup> est Guideline 203
Toxicity t	o microorganisms	:	EC50: 140 mg/l Exposure time: 1 Method: DIN 38	
Persiste	nce and degradabili	ity		
<u>Compon</u>	ents:			
<b>Oils, ses</b> Biodegra		:	Result: Readily b	iodegradable.
Ascorbio	c acid:			
Biodegra	dability	:	Result: Readily & Biodegradation: Exposure time: & Method: OECD	97 %
Bioaccu	mulative potential			
<u>Compon</u>	ents:			
Phenylbe Partition octanol/w	coefficient: n-	:	log Pow: 3,16	
Ascorbic Partition	<b>: acid:</b> coefficient: n- /ater	:	log Pow: -1,85	



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Mobi	lity in soil		
No da	ata available		
	r adverse effects		
	ata available		
SECTION	13. DISPOSAL CONS	SIDERATIONS	
Disp	osal methods		
Wast	e from residues		e of waste into sewer.
Conta	aminated packaging	accordance with local regulations. hers should be taken to an approved waste for recycling or disposal. he specified: Dispose of as unused product.	
SECTION	14. TRANSPORT INF	ORMATION	
• •			
	national Regulations		
UNR Not re	TDG egulated as a dangerou	us good	
	-DGR egulated as a dangerou	us good	
	G-Code egulated as a dangerou	us good	
	sport in bulk accordir	-	ARPOL 73/78 and the IBC Code
-	ial precautions for us	er	
SECTION	15. REGULATORY IN	FORMATION	
• • •			
Safet mixtu		mental regulations	/legislation specific for the substance or
Arger Regis	ntina. Carcinogenic Sul stry.	ostances and Agents	S : Not applicable
	rol of precursors and es aration of drugs.	ssential chemicals fo	r the : Not applicable
The i	ngredients of this pro	oduct are reported i	n the following inventories:
AICS	-	: not determine	d
DSL		: not determine	d
IECS	С	: not determine	d

#### SECTION 16. OTHER INFORMATION



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<b>F</b> ourth	on information		

#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of other abbreviations

AR OEL	Argentina. Occupational Exposure Limits

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific



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context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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