

according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	666671-00022	Date of first issue: 2016/05/12

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Phenylbutazone Formulation				
Manufacturer or supplier's de Company	etai :	i ls MSD				
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331				
Telephone	:	+1-908-740-4000				
Emergency telephone number	:	86-571-87268110				
E-mail address	:	EHSDATASTEWARD@msd.com				
Recommended use of the chemical and restrictions on use						
Recommended use Restrictions on use	:	Veterinary product Not applicable				

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	paste white citrus				
Harmful if swallowed. Causes serious eye irritation.						
GHS Classification						
Acute toxicity (Oral)	:	Category 4				
Serious eye damage/eye irri- tation	:	Category 2A				
GHS label elements						
Hazard pictograms	:					
Signal word	:	Warning				
Hazard statements	:	H302 Harmful if swallowed. H319 Causes serious eye irritation.				



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version 5.0	Revision Date: 2024/09/28	SDS Number: 666671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12
Preca	autionary statements	P270 Do not e	kin thoroughly after handling. eat, drink or smoke when using this product. /e protection/ face protection.
		CENTER/ doc P305 + P351 for several mi easy to do. Co	 + P330 IF SWALLOWED: Call a POISON etor if you feel unwell. Rinse mouth. + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and pontinue rinsing. If eye irritation persists: Get medical advice/ at-
		Disposal: P501 Dispose	of contents/ container to an approved waste

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Harmful if swallowed. Causes serious eye irritation.

Environmental hazards

Not classified based on available information.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 20 %

Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Phenylbutazone	50-33-9	>= 20 -< 30
Ascorbic acid	50-81-7	>= 1 -< 10

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.

according to GB/T 16483 and GB/T 17519



Phenylbutazone Formulation

Vers 5.0	sion	Revision Date: 2024/09/28		0S Number: 6671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12	
	If inhale	ed	:	If inhaled, remove Get medical atter	e to fresh air. tion if symptoms occur.	
	In case	of skin contact	:	Wash with water		
	In case of eye contact		:	In case of contact for at least 15 min	t, immediately flush eyes with plenty of water nutes. ove contact lens, if worn.	
	If swallowed		:	If swallowed, DO so by medical per Get medical atter Rinse mouth thor	NOT induce vomiting unless directed to do rsonnel.	
	Most important symptoms and effects, both acute and delayed		:	Harmful if swallow Causes serious e	ved.	
	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 symptomati	cally and supportively.	
5. FI	IREFIGH	HTING MEASURES				
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuita media	ble extinguishing	:	None known.		
	Specific fighting	c hazards during fire-	:	Exposure to com	oustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (l	NOx)	
	Specific ods	c extinguishing meth-	:	cumstances and tuse water spray f	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do	
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.

according to GB/T 16483 and GB/T 17519



Phenylbutazone Formulation

Version 5.0	Revision Date: 2024/09/28		S Number: 6671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12
	uipment and emer- procedures			ing advice (see section 7) and personal pro- recommendations (see section 8).
Enviro	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up		tainer for disposa Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national posal of this mate employed in the of mine which regula Sections 13 and	f dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Handl	ing
-------	-----

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation		Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
		Do not swallow. Do not get in eyes.
		Avoid prolonged or repeated contact with skin.
		Wash skin thoroughly after handling.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Minimize dust generation and accumulation.
		Keep container closed when not in use.
		Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges.
		Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

VersionRevision Date:SDS Number:Date of last issue: 2024/07/065.02024/09/28666671-00022Date of first issue: 2016/05/12	
--	--

Storage

Conditions for safe storage		Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	÷	Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Phenylbutazone	50-33-9	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm ²	Internal
Ascorbic acid	50-81-7	TWA	5000 µg/m3 (OEB 1)	Internal

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 de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipme	nt	
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Eye/face protection	:	Wear the following personal protective equipment: Safety goggles
Skin and body protection	:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version 5.0	Revision Date: 2024/09/28		S Number: 6671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12
Hygie	ene measures	:	eye flushing syst ing place. When using do n	emical is likely during typical use, provide ems and safety showers close to the work- ot eat, drink or smoke. ted clothing before re-use.
. PHYSIC		ROP	ERTIES	
Appe	arance	:	paste	
Colou	ır		white	
Odou	ır	:	citrus	
Odou	ır Threshold	:	No data availabl	e
рΗ		:	No data availabl	e
Melti	ng point/freezing point	:	No data availabl	е
Initial range	boiling point and boiling	:	No data availabl	e
Flash	n point	:	Not applicable	
Evap	oration rate	:	No data availabl	e
Flam	mability (solid, gas)	:	May form explosed dling or other me	sive dust-air mixture during processing, han- eans.
Flam	mability (liquids)	:	No data availabl	e
	er explosion limit / Upper nability limit	:	No data availabl	e
	er explosion limit / Lower nability limit	:	No data availabl	e
Vapo	ur pressure	:	No data availabl	e
Relat	ive vapour density	:	No data availabl	e
Dens	ity	:	No data availabl	e
	bility(ies) /ater solubility	:	No data availabl	e
	ion coefficient: n-	:	No data availabl	e
	ol/water ignition temperature	:	No data availabl	e



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Versio 5.0	n Revision Date: 2024/09/28	SDS Number: 666671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12		
D	ecomposition temperature	: No data availa	ble		
Vi	scosity Viscosity, kinematic	: No data availa	hla		
г.	-				
E	xplosive properties	: Not explosive			
0	xidizing properties	: The substance	The substance or mixture is not classified as oxidizing.		
М	olecular weight	: No data availa	ble		
	article characteristics article size	: No data availa	ble		
10. ST		Y			
CI Po	eactivity hemical stability ossibility of hazardous reac- ons	 Stable under n May form explo dling or other r 	as a reactivity hazard. ormal conditions. osive dust-air mixture during processing, han- neans. strong oxidizing agents.		
C	onditions to avoid	: Heat, flames a Avoid dust forr			
Ha	compatible materials azardous decomposition oducts	: Oxidizing ager			
11. TO	XICOLOGICAL INFORMA	TION			
E	xposure routes	: Inhalation Skin contact Ingestion Eye contact			
	cute toxicity armful if swallowed.				
<u>P</u> 1	roduct:				
Ad	cute oral toxicity	: Acute toxicity e Method: Calcula	stimate: 1,225 mg/kg ation method		
<u>C</u> (omponents:				
PI	henylbutazone:				
A	cute oral toxicity	: LD50 (Rat): 245	5 mg/kg		
		LD50 (Mouse):	238 mg/kg		
		LD50 (Dog): 33	2 mg/kg		
		7 / 15			



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	666671-00022	Date of first issue: 2016/05/12

II

Ascorbic acid:

Acute oral toxicity

: LD50 (Rat): 11,900 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Ascorbic acid:

Species Method Result	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Phenylbutazone:

Species Result	:	Rabbit
Result	:	Irritation to eyes, reversing within 21 days

Ascorbic acid:

Species Result Method	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

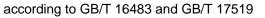
Components:

Ascorbic acid:

: Maurer optimisation test
: Skin contact
: Guinea pig
: negative

Germ cell mutagenicity

Not classified based on available information.





Phenylbutazone Formulation

rsion)	Revision Date: 2024/09/28	SDS Number: 666671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12
<u>Com</u>	oonents:		
	ylbutazone: toxicity in vitro	: Test Type: Bad Result: negativ	cterial reverse mutation assay (AMES)
		Ū.	romosome aberration test in vitro
		Test Type: In v malian cells Result: negativ	vitro sister chromatid exchange assay in mam
		Test Type: Chi Result: negativ	romosomal aberration /e
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ	e ute: Ingestion
		Species: Mous	ute: Intraperitoneal injection
		Test Type: Mic Species: Mous Application Ro Result: positive	e ute: Ingestion
	cell mutagenicity - ssment	: Weight of evide cell mutagen.	ence does not support classification as a gerr
II Asco	rbic acid:		
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) /e
		Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
		Test Type: Chi Result: negativ	romosome aberration test in vitro /e
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mous Application Ro Result: negativ	e ute: Ingestion



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	666671-00022	Date of first issue: 2016/05/12

Carcinogenicity

Not classified based on available information.

Components:

Phenyl	butazone:

Species Application Route Exposure time Result	: Rat : Ingestion : 103 weeks : positive
Species Application Route Exposure time Result	: Mouse : Ingestion : 103 weeks : positive
Carcinogenicity - Assess- ment	: Weight of evidence does not support classification as a car- cinogen
Ascorbic acid: Species Application Route Exposure time Result	 Mouse Ingestion 2 Years negative
Reproductive toxicity Not classified based on availab <u>Components:</u>	le information.
Phenylbutazone:	
Effects on foetal develop- ment	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Embryo-foetal toxicity: NOAEL: 42 mg/kg body weight Result: negative
	Test Type: Embryo-foetal development Species: Rabbit
	Application Route: Ingestion Result: negative



according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	666671-00022	Date of first issue: 2016/05/12

ment

Species: Rat Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Phenylbutazone:

Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks	 Rat 50 mg/kg 100 mg/kg Ingestion 13 Weeks Kidney Significant toxicity observed in testing
Species NOAEL Application Route Exposure time	 Mouse 150 mg/kg Ingestion 13 Weeks
Ascorbic acid: Species	: Rat, male

Species	: Rat, male
NOAEL	: >= 8,100 mg/kg
Species NOAEL Application Route Exposure time	: Ingestion
Exposure time	: 13 Weeks

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Phenylbutazone:		
Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded



according to GB/T 16483 and GB/T 17519

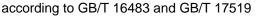
Phenylbutazone Formulation

Version 5.0	Revision Date: 2024/09/28		DS Number: 66671-00022	Date of last issue: 2024/07/06 Date of first issue: 2016/05/12
Toxic	orbic acid: ity to fish ity to microorganisms	:	Exposure time: 9	ēst Guideline 203 6 h
	istence and degradabi	πту		
	ponents:			
	o rbic acid: egradability	:	Result: Readily b Biodegradation: Exposure time: 5 Method: OECD T	97 %
Bioa	ccumulative potential			
Com	ponents:			
Partit	ylbutazone: ion coefficient: n- iol/water	:	log Pow: 3.16	
Partit	r bic acid: ion coefficient: n- iol/water	:	log Pow: -1.85	
	lity in soil ata available			
	r adverse effects ata available			
13. DISPOSAL CONSIDERATIONS				
Wast	osal methods e from residues aminated packaging	:	Dispose of in acc Empty containers	f waste into sewer. cordance with local regulations. s should be taken to an approved waste han-
			dling site for recy	cling or disposal.

14. TRANSPORT INFORMATION

International Regulations

If not otherwise specified: Dispose of as unused product.





Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	666671-00022	Date of first issue: 2016/05/12

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passen-	:	Not applicable
ger aircraft)		
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable

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

Not applicable

Not applicable

Not applicable

:

:

:

: no

Not applicable for product as supplied.

National Regulations

GB 6944/12268

Packing group

Marine pollutant

Labels

EmS Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Marine pollutant	:	no

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

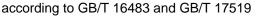


according to GB/T 16483 and GB/T 17519

Phenylbutazone Formulation

Vers 5.0	sion	Revision Date: 2024/09/28		0S Number: 6671-00022		of last issue: 2024/07/06 of first issue: 2016/05/12
	-	ations on Safety Mana	-		s Cher	nicals
	Catalo	gue of Hazardous Che	mica	als	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
	Identifio 18218)	cation of Major Hazard	Ins	tallations for Hazar	dous C	hemicals (GB : Not listed
	Hazard SAWS	lous Chemicals for Price	ority	Management unde	er :	Not listed
I.	l Requia	ations on Labour Pro	tect	ion in Workplaces	s where	e Toxic Substances are Used
		gue of Highly Toxic Ch		-	:	Not listed
ļ	l Regula	ation of Environment	al M	anagement on the	e First	Import of Chemicals and the Import
	and Ex	port of Toxic Chemic	als	-		
	China S and Ex	Severely Restricted To port	xic (Chemicals for Impo	ort :	Not listed
•	Regula	ation on the Administ	rati	on of Precursor C	hemica	als
	Catalog	gue and Classification	of P	recursor Chemicals	s :	Not listed
	Yangtz	e River Protection La	aw			
	This pr	oduct does not contair	n ang	y dangerous chemi	cals pr	phibited for inland river transport.
		mponents of this pro	oduc	-	the foll	owing inventories:
	AICS		:	not determined		
	DSL		:	not determined		
	IECSC		:	not determined		
16. 0	OTHER	INFORMATION				
	Revisio	on Date	:	2024/09/28		
	Furthe	r information				
		s of key data used to e the Safety Data	:		arch res	ata from raw material SDSs, OECD sults and European Chemicals Agen- i/
		where changes have be ent by two vertical line		made to the previo	us vers	ion are highlighted in the body of this

Date format : yyyy/mm/dd





Phenylbutazone Formulation

Version	Revision Date:	SDS N
5.0	2024/09/28	66667

S Number: 671-00022 Date of last issue: 2024/07/06 Date of first issue: 2016/05/12

Full text of other abbreviations

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 - Verv Persistent and Verv Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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 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.

CN / EN