

according to the Hazardous Products Regulations

Phenylbutazone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
5.0	07/06/2024	666668-00023	Date of first issue: 05/12/2016

SECTION 1. IDENTIFICATION

Product name	:	Phenylbutazone Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations					
Acute toxicity (Oral)	:	Category 4			
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		Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection and face protection.			
		Response: P301 + P312 + P330 IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical attention.			
		Disposal: P501 Dispose of contents and container to an approved waste			



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disposal plant.

Other hazards

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 Common CAS-No Concentration (% w/w)

Chemical hame	Name/Synonym	CAS-NO.	
Oils, sesame	Sesamum indi- cum oil	8008-74-0	>= 60 - < 80 *
Phenylbutazone	3,5- Pyrazolidinedi- one, 4-butyl-1,2- diphenyl-	50-33-9	>= 10 - < 30 *
Silicon, amorphous	Silicon dioxide	112945-52-5	>= 5 - < 10 *
Ascorbic acid	No data availa- ble	50-81-7	>= 1 - < 5 *

^{*} Actual concentration or concentration range is withheld as a trade secret

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	:	
		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 MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	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 so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures

: Static electricity may accumulate and ignite suspended dust causing an explosion.



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	Total ventilation on safe handling	 and bonding, Use only with Do not breath Do not swallor Do not get in a Avoid prolong Wash skin the Handle in acc practice, base assessment Minimize dust Keep containe Keep away free Take precauti Do not eat, dr 	W.
Condit	tions for safe storage		rly labeled containers. dance with the particular national regulations.
Materi	als to avoid		vith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

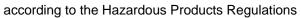
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oils, sesame	8008-74-0	TWAEV (Mist)	10 mg/m ³	CA QC OEL
Phenylbutazone	50-33-9	TWA	30 µg/m3 (OEB 3)	Internal
		Wipe limit	300 µg/100 cm ²	Internal
Silicon, amorphous	112945-52-5	TWAEV (respirable dust)	6 mg/m³	CA QC OEL
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 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 equipment

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



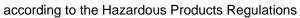


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Hand	protection			
M	aterial	:	Chemical-resistar	nt gloves
R	emarks	:	: Choose gloves to protect hands against chemicals depend on the concentration specific to place of work. Breakthroug time is not determined for the product. Change gloves ofter 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 end of workday.	
Eye p	protection	:		g personal protective equipment:
Skin	and body protection	:	Select appropriate resistance data a potential. Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
Hygie	ene measures	:	If exposure to che eye flushing syste working place. When using do no	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ed clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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	:	No data available





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fl	lamma	bility limit			
V	/apor p	pressure	:	No data available	9
R	Relative	e vapor density	:	No data available	9
C	Density		:	No data available	9
S	Solubilit Wate	ty(ies) er solubility	:	No data available	9
-		n coefficient: n-	:	No data available	9
-	octanol/ Autoign	water ition temperature	:	No data available	9
D	Decom	position temperature	:	No data available	9
V	/iscosit Visc	y osity, kinematic	:	No data available	9
E	Explosi	ve properties	:	Not explosive	
C	Dxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
N	Nolecul	ar weight	:	No data available	9
-	Particle Particle	characteristics size	:	No data available	

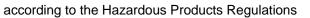
SECTION 10. STABILITY AND REACTIVITY

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 processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products		Oxidizing agents No hazardous decomposition products are known.
•		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

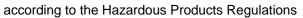




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	e toxicity ful if swallowed.			
Produ				
	oral toxicity	:		estimate: 1,225 mg/kg ulation method
Comp	oonents:			
Oils, s	sesame:			
Acute	oral toxicity	:	LD50 (Rat): > Remarks: Bas	· 2,000 mg/kg sed on data from similar materials
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
Phen	ylbutazone:			
Acute	oral toxicity	:	LD50 (Rat): 2	45 mg/kg
			LD50 (Mouse	e): 238 mg/kg
			LD50 (Dog): 3	332 mg/kg
Silico	n, amorphous:			
	oral toxicity	:		5,000 mg/kg D Test Guideline 401 sed on data from similar materials
Acute	inhalation toxicity	:	Assessment: tion toxicity	
Acute	dermal toxicity	:): > 5,000 mg/kg sed on data from similar materials
Asco	rbic acid:			
	oral toxicity	:	LD50 (Rat): 1	1,900 mg/kg
Skin	corrosion/irritation			
	assified based on av	ailable	information.	
Comp	oonents:			
Oils, s	sesame:			
Speci	es	:	Rabbit	
Resul	t	:	No skin irritat	ion

Silicon, amorphous:





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Spec Meth Resu Rem	od Ilt	: Rabbit : OECD Test (: No skin irritat : Based on da	
Asco	orbic acid:		
Spec Meth Resu	od	: Rabbit : OECD Test (: No skin irritat	
	ous eye damage/eye i ses serious eye irritatio		
Com	ponents:		
Oils,	sesame:		
Spec Resu		: Rabbit : No eye irritat	ion
Pher	vylbutazone:		
Spec Resu		: Rabbit : Irritation to e	ves, reversing within 21 days
Silic	on, amorphous:		
Spec Resu Meth Rema	ies Ilt od	: Rabbit : No eye irritat : OECD Test (: Based on da	
Asco	orbic acid:		
Spec Resu Meth	ılt	: Rabbit : No eye irritat : OECD Test (
Resp	biratory or skin sensi	tization	
	sensitization	ilable information.	
Resp	piratory sensitization		
Not c	classified based on ava	ilable information.	
<u>Com</u>	ponents:		
Oils,	sesame:		
_ ·	-		

Test Type	:	Human repeat insult patch test (HRIPT)
Routes of exposure	:	Skin contact
Result	:	negative



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ersion D	Revision Date: 07/06/2024	SDS Number: 666668-00023	Date of last issue: 04/06/2024 Date of first issue: 05/12/2016						
Ascor	bic acid:								
Test T	уре	: Maurer opti	misation test						
	s of exposure	: Skin contac	t						
Specie Result			: Guinea pig : negative						
Result		. negative							
Germ	cell mutagenicity								
Not cla	assified based on av	ailable information.							
<u>Comp</u>	<u>onents:</u>								
Oils, s	sesame:								
Genot	oxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative						
Pheny	lbutazone:								
Genot	oxicity in vitro	: Test Type: I Result: nega	Bacterial reverse mutation assay (AMES) ative						
		Test Type: (Result: posi	Chromosome aberration test in vitro tive						
		Test Type: I malian cells Result: nega							
		Test Type: (Result: neg	Chromosomal aberration ative						
Genot	oxicity in vivo	: Test Type: I cytogenetic	Mammalian erythrocyte micronucleus test (in vive assav)						
		Species: Mo	buse						
		Application Result: nega	Route: Ingestion ative						
		Test Type: I Species: Mo	Rodent dominant lethal test (germ cell) (in vivo)						
			Route: Intraperitoneal injection						
		Test Type: I Species: Mo	Micronucleus test						
			Route: Ingestion						
Germ Asses	cell mutagenicity - sment	: Weight of ev cell mutage	vidence does not support classification as a gern n.						
Silico	n, amorphous:								
	oxicity in vitro		Bacterial reverse mutation assay (AMES) CD Test Guideline 471 ative						



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ersion)	Revision Date: 07/06/2024	SDS Number: 666668-00023	
		Remarks:	Based on data from similar materials
Genot	toxicity in vivo	cytogenetic Species: R Application Result: neg	n Route: Ingestion
Asco	rbic acid:		
Genot	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: ne	Chromosome aberration test in vitro gative
Genot	toxicity in vivo	cytogenetic Species: M	
		Result: ne	
	nogenicity assified based on ava	Result: neg	gative
Not cl		Result: neg	gative
Not cl <u>Comp</u>	assified based on ava	Result: neg	gative
Not cl <u>Comp</u> Pheny Specie	assified based on ava ponents: ylbutazone: es	Result: neg	gative
Not cl Comp Pheny Specie Applic	assified based on ava <u>conents:</u> ylbutazone: es cation Route	Result: neg ilable information : Rat : Ingestion	gative
Not cl Comp Pheny Specie Applic Expos	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time	Result: neg ilable information : Rat : Ingestion : 103 weeks	gative
Not cl Comp Pheny Specie Applic	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time	Result: neg ilable information : Rat : Ingestion	gative
Not cl Comp Pheny Specie Applic Expos	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t	Result: neg ilable information : Rat : Ingestion : 103 weeks	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t es cation Route	Result: neg ilable information : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic Expos	assified based on ava <u>ponents:</u> ylbutazone: es cation Route sure time t es cation Route sure time	Result: neg illable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic	assified based on ava <u>ponents:</u> ylbutazone: es cation Route sure time t es cation Route sure time	Result: neg ilable information : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion	gative
Not cl <u>Comp</u> Pheny Specia Applic Expos Resul Specia Applic Expos Resul	assified based on ava <u>ponents:</u> ylbutazone: es cation Route sure time t es cation Route sure time	Result: neg allable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive	gative
Not cl <u>Comp</u> <u>Pheny</u> Specia Applic Expos Resul Specia Applic Expos Resul Carcir ment	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t es cation Route sure time t hogenicity - Assess-	Result: neg ilable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of e	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic Expos Resul Carcir ment	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t es cation Route sure time t hogenicity - Assess- on, amorphous:	Result: neg allable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of e cinogen	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic Expos Resul Carcir ment Silico Specie	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t es cation Route sure time t hogenicity - Assess- on, amorphous:	Result: neg ilable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of e	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic Expos Resul Carcir ment Silico Specie Applic Expos Resul	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t es cation Route sure time t nogenicity - Assess- on, amorphous: es cation Route sure time	Result: neg illable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of e cinogen : Rat	gative
Not cl Comp Pheny Specie Applic Expos Resul Specie Applic Expos Resul Carcir ment Silico Specie Applic	assified based on ava <u>conents:</u> ylbutazone: es cation Route sure time t nogenicity - Assess- on, amorphous: es cation Route sure time t	Result: neg illable information. : Rat : Ingestion : 103 weeks : positive : Mouse : Ingestion : 103 weeks : positive : Weight of a cinogen : Rat : Ingestion : 103 weeks : positive	gative



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Speci Applic	ation Route sure time	:	Mouse Ingestion 2 Years negative	
-	oductive toxicity assified based on avail	able	information.	
<u>Comp</u>	oonents:			
	ylbutazone: s on fetal development	:	Species: Rat Application Rot Embryo-fetal to Result: negativ Test Type: Eml Species: Rabbi Application Rot Result: negativ Test Type: Eml Species: Rabbi Application Rot	e bryo-fetal development it ute: Ingestion e bryo-fetal development it ute: Ingestion pxicity.: NOAEL: 60 mg/kg body weigh
Siliaa	n omornhouo.		-	
	n, amorphous: s on fetal development	:	Species: Rat Application Rou Result: negativ	
Asco	rbic acid:			
Effect	s on fetal development	:	Test Type: Eml Species: Rat Application Rou Result: negativ	

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.



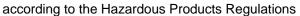
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	Repeat	ed dose toxicity					
	Compo	onents:					
	Phenyl	butazone:					
	Exposu Target Remark Species NOAEL	tion Route re time Organs ks		Rat 50 mg/kg 100 mg/kg Ingestion 13 Weeks Kidney Significant toxicity Mouse 150 mg/kg Ingestion	y observed in testing		
		ire time	:	13 Weeks			
	Species NOAEL Applica	- ition Route ire time	:	Rat 1.3 mg/l inhalation (dust/m 13 Weeks Based on data fro	nist/fume) om similar materials		
	Ascort	bic acid:					
	Exposu Aspira		:	Rat, male >= 8,100 mg/kg Ingestion 13 Weeks			
SEC	SECTION 12. ECOLOGICAL INFORMATION						
	Ecotox	kicity					
	Components:						
	Phenylbutazone:						
	Ecotox	cicology Assessmen	t				
	Acute a	equatic toxicity	:	Toxic effects can	not be excluded		
	Chronic	c aquatic toxicity	:	Toxic effects can	not be excluded		
	01110-0	omounhouse					
		, amorphous: / to fish	:	Exposure time: 9	o (zebra fish)): > 10,000 mg/l 6 h est Guideline 203		



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Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants			 Remarks: Based on data from similar materials EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials 		
		:			
		:	EC50 (Desmodesmus subspicatus (green algae)): > 10,0 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials		
			mg/l Exposure time: 72 Method: OECD To		
Ascorb	ic acid:				
Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
Toxicity	to microorganisms	:	EC50: 140 mg/l Exposure time: 16 Method: DIN 38 4		
Persist	ence and degradabil	ity			
<u>Compo</u>	nents:				
Oils, se	same:				
	adability	:	Result: Readily bi	odegradable.	
Ascorb	ic acid:				
Biodegr	adability	:	Result: Readily bi Biodegradation: 9 Exposure time: 5 Method: OECD To	97 % d	
Bioacc	umulative potential	ial			
<u>Compo</u>	nents:				
•	butazone: n coefficient: n- water	:	log Pow: 3.16		
Ascorb					
	n coefficient: n-	:	log Pow: -1.85		
			13/16		





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	lity in soil				
No data available					
Othe	r adverse effects				
No data available					
	ata available 13. DISPOSAL CONS	SIDERATIONS			
SECTION		SIDERATIONS			
SECTION Disp	13. DISPOSAL CONS	: Do not dispose	e of waste into sewer. accordance with local regulations.		

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

TDG Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:					
AICS	: not determined				
DSL	: not determined				
IECSC	: not determined				
IECSC					

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA QC OEL : Québec. Regulation respecting occupational health and safe-



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CA QC OEL / TWAEV

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ty, Schedule 1, Part 1: Permissible exposure values for airborne contaminantsTime-weighted average exposure value

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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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



according to the Hazardous Products Regulations

Phenylbutazone Formulation

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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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