



Versio 5.0			5 Number: 674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
1. PR	ODUCT AND COMPANY IDE	ΞΝΤΙ	FICATION	
F	Product name	:	Phenylbutazone	Formulation
Γ	Aanufacturer or supplier's d	etai	ls	
(	Company	:	MSD	
ļ	Address	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065
٦	elephone	:	908-740-4000	
E	Emergency telephone number	:	1-908-423-6000	
E	E-mail address	:	EHSDATASTEW	ARD@msd.com
F	Recommended use of the ch	nemi	cal and restrictio	ons on use
	Recommended use Restrictions on use	:	Veterinary produce Not applicable	ct
2. HA	ZARDS IDENTIFICATION			
C	GHS Classification			
ŀ	Acute toxicity (Oral)	:	Category 4	
	Serious eye damage/eye irri- ation	:	Category 2A	
C	GHS label elements			
ŀ	lazard pictograms	:		
5	Signal word	:	Warning	
ł	lazard statements	:	H302 Harmful if s H319 Causes ser	swallowed. rious eye irritation.

Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/ face protection.

#### Response:

:

Precautionary statements

P301 + P312 + P330 IF SWALLOWED: Call a POISON





Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
5.0	2024/07/06	666674-00021	Date of first issue: 2016/05/12

CENTER/ 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 advice/ attention.

#### Disposal:

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

### **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	>= 10 -< 30
Ascorbic acid	50-81-7	< 10

#### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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 and effects, both acute and delayed	:	Harmful if swallowed. Causes serious eye irritation. Contact with dust can cause mechanical irritation or drying of the skin.

### SAFETY DATA SHEET



Version 5.0	Revision Date: 2024/07/06		DS Number: Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
	ction of first-aiders to physician	:	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). Treat symptomatically and supportively.
	HTING MEASURES		
Suitab	ble extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsui media	table extinguishing	:	None known.
	fic hazards during fire-	:	Exposure to combustion products may be a hazard to health.
	g dous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx)
Specif ods	fic extinguishing meth-	:	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.
	al protective equipment ofighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
6. ACCIDE	INTAL RELEASE MEAS	SUF	RES
tive ea	nal precautions, protec- quipment and emer- procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Enviro	onmental 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.
	ods and materials for inment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer 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 surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
5.0	2024/07/06	666674-00021	Date of first issue: 2016/05/12

7. HANDLING AND STORAGE	
Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
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 as- sessment
	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.
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

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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

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 equipment	

Respiratory protection : If adequate local exhaust ventilation is not available or expo-



/ersion 5.0	Revision Date: 2024/07/06		S Number: 6674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
	Iter type protection	:		nt demonstrates exposures outside the rec- lelines, use respiratory protection. e
Ma	aterial	:	Chemical-resist	ant gloves
Re	emarks	:	on the concentration on the concentration of the concentration of the concentration of the chemical of the che	to protect hands against chemicals dependin ation and quantity of the hazardous sub- cific to place of work. Breakthrough time is no he product. Change gloves often! For specia recommend clarifying the resistance to a aforementioned protective gloves with the urer. Wash hands before breaks and at the
Eye p	protection	:	Wear the follow	ing personal protective equipment:
Skin and body protection		:	resistance data potential. Skin contact mu	ate protective clothing based on chemical and an assessment of the local exposure ist be avoided by using impervious protective , aprons, boots, etc).
	ene measures	:	If exposure to cl eye flushing sys ing place. When using do Wash contamin	not eat, drink or smoke. ated clothing before re-use.
. PHYSIC	CAL AND CHEMICAL	PROF	PERTIES	
Appe	arance	:	paste	
Colou	ır	:	white	
<b>.</b> .				

Colour		white
Odour	:	citrus
Odour 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, han- dling or other means.
Flammability (liquids)	:	No data available





Versi 5.0	ion	Revision Date: 2024/07/06		S Number: 674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	)
,	Vapour	pressure	:	No data available	9
I	Relative	e vapour density	:	No data available	9
I	Density	,	:	No data available	9
:	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	No data available	2
	octanol Auto-ig	nition temperature	:	No data available	)
I	Decom	position temperature	:	No data available	9
,	Viscosi Visc	ty osity, kinematic	:	No data available	9
I	Explosi	ve properties	:	Not explosive	
(	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
I	Molecu	lar weight	:	No data available	2
	Particle Particle	characteristics size	:	No data available	)

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

### 11. TOXICOLOGICAL INFORMATION



ersion D	Revision Date: 2024/07/06		9S Number: 6674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity ful if swallowed.			
Produ	uct:			
Acute	oral toxicity	:	Acute toxicity estine Method: Calculation	mate: 1,225 mg/kg on method
Com	ponents:			
Phen	ylbutazone:			
Acute	oral toxicity	:	LD50 (Rat): 245 n	ng/kg
			LD50 (Mouse): 23	88 mg/kg
			LD50 (Dog): 332 ı	mg/kg
Asco	rbic acid:			
Acute	oral toxicity	:	LD50 (Rat): 11,90	0 mg/kg
Skin	corrosion/irritation			
-	corrosion/irritation assified based on availa	ble	information.	
Not cl		ble	information.	
Not cl	assified based on availa	ble	information.	
Not cl	assified based on availa ponents: rbic acid:	ble :	Information. Rabbit	
Not cl <u>Comp</u> Asco Speci Metho	assified based on availa <u>conents:</u> rbic acid: es od	ble :	Rabbit OECD Test Guide	eline 404
Not cl <u>Comp</u> Asco Speci	assified based on availa <u>conents:</u> rbic acid: es od	ble : :	Rabbit	eline 404
Not cl <u>Comp</u> Asco Speci Metho Resul	assified based on availa <u>conents:</u> rbic acid: es od	:	Rabbit OECD Test Guide No skin irritation	eline 404
Not cl Comp Asco Speci Metho Resul	assified based on availa <u>conents:</u> <b>rbic acid:</b> es od it	:	Rabbit OECD Test Guide No skin irritation	eline 404
Not cl <u>Comp</u> Asco Speci Metho Resul Serio Cause	assified based on availa <u>ponents:</u> rbic acid: es od t us eye damage/eye irri	:	Rabbit OECD Test Guide No skin irritation	eline 404
Not cl <u>Comp</u> Asco Speci Metho Resul Serio Cause <u>Comp</u>	assified based on availa <u>conents:</u> <b>rbic acid:</b> es od t <b>us eye damage/eye irri</b> es serious eye irritation.	:	Rabbit OECD Test Guide No skin irritation	eline 404
Not cl Comp Asco Speci Metho Resul Serio Cause Comp Phen Speci	assified based on availa <u>conents:</u> rbic acid: es od it us eye damage/eye irri es serious eye irritation. <u>conents:</u> ylbutazone: es	:	Rabbit OECD Test Guide No skin irritation on	
Not cl Comp Asco Speci Metho Resul Serio Cause Comp Phen	assified based on availa <u>conents:</u> rbic acid: es od it us eye damage/eye irri es serious eye irritation. <u>conents:</u> ylbutazone: es	: : tati	Rabbit OECD Test Guide No skin irritation on	eline 404 reversing within 21 days
Not cl <u>Comp</u> Asco Speci Metho Resul Serio Cause <u>Comp</u> Phen Speci Resul	assified based on availa <u>conents:</u> rbic acid: es od it us eye damage/eye irri es serious eye irritation. <u>conents:</u> ylbutazone: es	: : tati	Rabbit OECD Test Guide No skin irritation on	
Not cl <u>Comp</u> Asco Speci Metho Resul Serio Cause <u>Comp</u> Phen Speci Resul	assified based on availa <u>conents:</u> <b>rbic acid:</b> es bd t <b>us eye damage/eye irri</b> es serious eye irritation. <u>conents:</u> <b>ylbutazone:</b> es t <b>rbic acid:</b>	: : tati	Rabbit OECD Test Guide No skin irritation on	
Not cl Comp Asco Speci Metho Resul Serio Cause Cause Phen Speci Resul Asco	assified based on availa <u>conents:</u> rbic acid: es bd t us eye damage/eye irri es serious eye irritation. <u>conents:</u> ylbutazone: es t rbic acid: es t	: : tati	Rabbit OECD Test Guide No skin irritation on Rabbit Irritation to eyes, r	reversing within 21 days





rsion )	Revision Date: 2024/07/06	SDS Number: 666674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
Resp	iratory or skin sens	tisation	
-	sensitisation lassified based on av	ailable information.	
-	<b>iratory sensitisatio</b> r lassified based on av		
Com	oonents:		
Test	sure routes es	: Maurer optir : Skin contact : Guinea pig : negative	
	<b>cell mutagenicity</b> lassified based on av	ailable information.	
<u>Com</u>	oonents:		
Phen	ylbutazone:		
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: ( Result: posit	Chromosome aberration test in vitro tive
		Test Type: I malian cells Result: nega	n vitro sister chromatid exchange assay in marr ative
		Test Type: 0 Result: nega	Chromosomal aberration ative
Geno	toxicity in vivo	cytogenetic Species: Mc	use Route: Ingestion
		Test Type: F Species: Mo	Rodent dominant lethal test (germ cell) (in vivo) buse Route: Intraperitoneal injection
		Species: Mo	Route: Ingestion
	cell mutagenicity -	: Weight of ev cell mutager	ridence does not support classification as a gern



rsion	Revision Date: 2024/07/06	-	DS Number: 6674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
_				
	rbic acid:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
			Test Type: Chro Result: negative	mosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Mouse Application Rou	
_			Result: negative	
	<b>nogenicity</b> assified based on ava	ilable	information.	
<u>Com</u>	oonents:			
Phen	ylbutazone:			
Speci	-	:	Rat	
	cation Route	:	Ingestion	
Expos	sure time	:	103 weeks	
Resu	t	:	positive	
Speci	es	:	Mouse	
	cation Route	:	Ingestion	
	sure time	:	103 weeks	
Resu	t	:	positive	
Carci	nogenicity - Assess-	:	Weight of evider	nce does not support classification as a car-
ment			cinogen	
Asco	rbic acid:			
Speci		:	Mouse	
	cation Route	:	Ingestion	
Expos Resul	sure time t	:	2 Years negative	
-	oductive toxicity assified based on ava	ilable	information.	
Com	ananta			
Com	oonents:			
	ylbutazone:			



0	Revision Date: 2024/07/06	SDS Num 666674-00	
		Embry	ation Route: Ingestion o-foetal toxicity: NOAEL: 42 mg/kg body weight : negative
		Specie Applic	ype: Embryo-foetal development es: Rabbit ation Route: Ingestion : negative
		Specie Applica Embry	ype: Embryo-foetal development es: Rabbit ation Route: Ingestion o-foetal toxicity: NOAEL: 60 mg/kg body weight : negative
Asco	rbic acid:		
Effect ment	ts on foetal develop-	Specie Applica	ype: Embryo-foetal development s: Rat ation Route: Ingestion : negative
	<b>- single exposure</b> lassified based on ava	ilable informa	tion.
STOT	- repeated exposure	9	
	lassified based on ava	ilable informa	tion.
Not c	lassified based on ava ated dose toxicity	ilable informa	tion.
Not c <b>Repe</b>		ilable informa	tion.
Not c Repe <u>Com</u>	ated dose toxicity	ilable informa	tion.
Not c Repe Com Phen Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: ylbutazone: es EL EL cation Route sure time et Organs	: Rat : 50 mg. : 100 m : Ingesti : 13 We : Kidney	/kg g/kg on eks
Not c Repe Comj Phen Speci NOAE LOAE Applic Expos Targe Rema Speci NOAE	ated dose toxicity ponents: ylbutazone: es EL EL cation Route sure time et Organs arks	: Rat : 50 mg. : 100 m : Ingesti : 13 We : Kidney	/kg g/kg on eks , cant toxicity observed in testing g/kg on
Not c Repe Comj Phen Speci NOAE LOAE Applie Expos Speci NOAE Applie Expos	ated dose toxicity ponents: ylbutazone: es EL EL cation Route sure time et Organs arks EL EL cation Route	: Rat : 50 mg. : 100 m : Ingesti : 13 We : Kidney : Signifi : Mouse : 150 m : Ingesti	/kg g/kg on eks , cant toxicity observed in testing g/kg on



ersion 0	Revision Date: 2024/07/06	SDS Number: 666674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
-	ation toxicity lassified based on ava	lable information.	
2. ECOL	OGICAL INFORMATIO	DN	
Ecoto	oxicity		
<u>Com</u>	oonents:		
Phen	ylbutazone:		
	oxicology Assessme	nt	
Acute	aquatic toxicity	: Toxic effects	cannot be excluded
Chror	nic aquatic toxicity	: Toxic effects	cannot be excluded
Asco	rbic acid:		
Toxic	ity to fish	Exposure tim	hynchus mykiss (rainbow trout)): 1,020 mg/l e: 96 h CD Test Guideline 203
Toxic	ity to microorganisms	: EC50: 140 m Exposure tim Method: DIN	
Persi	stence and degradab	ility	
<u>Com</u>	oonents:		
	<b>rbic acid:</b> gradability	Biodegradati Exposure tim	
Bioad	cumulative potential		
<u>Comp</u>	oonents:		
Phen	ylbutazone:		
	ion coefficient: n- ol/water	: log Pow: 3.16	6
Partiti	<b>rbic acid:</b> ion coefficient: n- ol/water	: log Pow: -1.8	5
	l <b>ity in soil</b> ata available		



Version 5.0	Revision Date: 2024/07/06	SDS Number: 666674-00021	Date of last issue: 2024/04/06 Date of first issue: 2016/05/12
0.0	2024/01/00	000074 00021	
	r <b>adverse effects</b> ata available		
13. DISPO	SAL CONSIDERATIO	NS	
-	osal methods e from residues		e of waste into sewer. accordance with local regulations.
Conta	aminated packaging	: Empty contain dling site for re	ners should be taken to an approved waste han- ecycling or disposal. se specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATION		
Interr	national Regulations		
Prope Class Subsi Packi Label	umber er shipping name diary risk ng group	<ul> <li>Not applicable</li> <li>no</li> </ul>	9 9 9
Class Subsi Packi Label Packi aircra Packi	) No. er shipping name diary risk ng group s ng instruction (cargo	<ul> <li>Not applicable</li> </ul>	
UN nu Prope Class Subsi Packi Label EmS	diary risk ng group s	<ul> <li>Not applicable</li> </ul>	

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

Not applicable for product as supplied.

Special precautions for user

Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
5.0	2024/07/06	666674-00021	Date of first issue: 2016/05/12

### **15. REGULATORY INFORMATION**

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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances
Hazardous to Health

Hazardous substances that must be registered	:	Not applicable
--	---	----------------

#### Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use	:	Not applicable
Prohibited substances	:	Not applicable
Restricted substances	:	Not applicable

# Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### **16. OTHER INFORMATION**

Revision Date	:	2024/07/06
Further information		
Sources of key data used to compile the 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/

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

Date format

: yyyy/mm/dd



Version	Revision Date:	SE
5.0	2024/07/06	66

DS Number: 66674-00021 Date of last issue: 2024/04/06 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 - 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 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.

ID / EN