

Policresulen Formulation

0.0 2024/09/20 0111710-00011 Date of first issue: 2020/07/13	Version 6.0	Revision Date: 2024/09/28	SDS Number: 6111718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15	
	0.0	2024/09/28	0111718-00011	Date of first issue. 2020/01/15	

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Policresulen Formulation
Supplier's company name, ad		ess and phone number MSD
Company name of supplier	•	MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemical product				
Skin corrosion/irritation	:	Category 1		
Serious eye damage/eye irri- tation	:	Category 1		
GHS label elements				
Hazard pictograms	:	E E		
Signal word	:	Danger		
Hazard statements	:	H314 Causes severe skin burns and eye damage.		
Precautionary statements	:	Prevention: P264 Wash skin thoroughly after handling.		
		P280 Wear protective gloves/ protective clothing/ eye protec- tion/ face protection.		
		Response:		
		P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON		



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	6111718-00011	Date of first issue: 2020/07/15

CENTER/ doctor.

P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

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: 36 %

Other hazards which do not result in classification

Important symptoms and out- : Corrosive to the respiratory tract. lines of the emergency assumed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
2-Hydroxy-3,5-bis[(4-hydroxy-2- methyl-5-sulfophenyl)methyl]-4- methylbenzenesulfonic acid	101418-00-2	>= 30 - < 40	-

4. FIRST AID MEASURES

General advice	vice in	case of accident or if you feel unwell, seek medical ad- imediately.
	advice	symptoms persist or in all cases of doubt seek medical .
If inhaled	If inhal	ed, remove to fresh air.
	lf not b	reathing, give artificial respiration.
	If brea	thing is difficult, give oxygen.
	Get me	edical attention immediately.
In case of skin contact		e of contact, immediately flush skin with plenty of water east 15 minutes while removing contaminated clothing



Policresulen Formulation

Versi 6.0	ion	Revision Date: 2024/09/28		0S Number: 11718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
In case of eye contact If swallowed Most important symptoms and effects, both acute and delayed Protection of first-aiders		: :	In case of contact for at least 15 min If easy to do, rem Get medical atten If swallowed, DO If vomiting occurs Call a physician o Rinse mouth thor Never give anythi Causes serious e Causes serious e Causes digestive Corrosive to respi First Aid responde and use the recor when the potentia	fore reuse. shoes before reuse. , immediately flush eyes with plenty of water nutes. ove contact lens, if worn. tion immediately. NOT induce vomiting. have person lean forward. r poison control centre immediately. oughly with water. ng by mouth to an unconscious person. ye damage. urns. tract burns. ratory system. ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).	
	Notes to physician		:	Treat symptomati	cally and supportively.
-	_	ITING MEASURES			
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	ble extinguishing	:	None known.	
	Specific fighting	hazards during fire-	:	Exposure to comb	oustion products may be a hazard to health.
	Hazardo ucts	ous combustion prod-	:	Carbon oxides Sulphur oxides	
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. ective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-



Policresulen Formulation

Version 6.0	Revision Date: 2024/09/28		DS Number: 11718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
gency	/ procedures		tective equipment	recommendations (see section 8).
Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages
Methods and materials for containment and cleaning up		:	For large spills, pu ment to keep mat be pumped, store Clean up remainin bent. Local or national up posal of this mate employed in the of mine which regula Sections 13 and 1	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. 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 Keep container tightly closed.
		Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents Bases
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke.
		Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment,



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ns. can ma- de orage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
2-Hydroxy-3,5-bis[(4-hydroxy- 2-methyl-5- sulfophenyl)methyl]-4- methylbenzenesulfonic acid	101418-00-2	TWA	OEB 1 (1 mg/m3)	Internal

Engineering measures	Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.
Personal protective equipmer	ıt
Respiratory protection Filter type	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Organic vapour type
Hand protection	
Material	Chemical-resistant gloves
Eye protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a



Version 6.0	Revision Date: 2024/09/28		S Number: 1718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
Skin	and body protection	:	aerosols.	ect contact to the face with dusts, mists, or r laboratory coat.
9. PHYSIC	CAL AND CHEMICAL P	ROP	ERTIES	
Phys	ical state	:	liquid	
Colou	ır	:	brown	
Odou	r	:	phenol-like	
Odou	r Threshold	:	No data availa	ble
Meltir	ng point/freezing point	:	No data availa	ble
	g point, initial boiling and boiling range	:	No data availa	ble
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data availa	ble
U	r explosion limit and upp oper explosion limit / Up er flammability limit			
	ower explosion limit / ower flammability limit	:	No data availa	ble
Flash	point	:	No data availa	ble
Deco	mposition temperature	:	No data availa	ble
pН		:	< 1	
Evap	oration rate	:	No data availa	ble
Auto-	ignition temperature	:	No data availa	ble
Visco Vi	sity scosity, kinematic	:	6.78 mm2/s	
	bility(ies) ater solubility	:	partly miscible	
	ion coefficient: n- ol/water	:	No data availa	ble
Vapo	ur pressure	:	No data availa	ble
	ity and / or relative dens elative density	ity :	1.135	



Policresulen Formulation

Version 6.0	Revision Date: 2024/09/28		9S Number: 11718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15		
			No data availabl	e		
De	ensity	:	No data available	e		
Relative vapour density		:	: No data available			
Explo	sive properties	:	Not explosive			
Molec Partic	zing properties sular weight le characteristics	:	No data availabl	-		
Pa	rticle size	:	No data availabl	e		

10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	·	Oxidizing agents Bases
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

2-Hydroxy-3,5-bis[(4-hydroxy-2-methyl-5-sulfophenyl)methyl]-4-methylbenzenesulfonic acid:

Acute oral toxicity	: LD50 (Mouse): > 2,000 mg/kg
Acute inhalation toxicity	: Assessment: Corrosive to the respiratory tract.

Skin corrosion/irritation

Causes severe burns.



ersion .0	Revision Date: 2024/09/28	SDS Number: 6111718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
<u>Comp</u>	onents:		
2-Hyd id:	roxy-3,5-bis[(4-hydro	oxy-2-methyl-5-sulfo	phenyl)methyl]-4-methylbenzenesulfonic a
Result Remai		: Corrosive after : Based on extre	4 hours or less of exposure me pH
Seriou	ıs eye damage/eye i	rritation	
Cause	s serious eye damage	Э.	
<u>Comp</u>	onents:		
	roxy-3,5-bis[(4-hydro	oxy-2-methyl-5-sulfo	phenyl)methyl]-4-methylbenzenesulfonic a
id: Result		: Irreversible effe	ects on the eve
Rema		: Based on skin o	
Respi	ratory or skin sensit	isation	
	ensitisation		
	assified based on avai	llable information.	
-	ratory sensitisation assified based on avai	ilable information.	
Germ	cell mutagenicity		
Not cla	assified based on avai	ilable information.	
<u>Comp</u>	onents:		
2-Hyd id:	roxy-3,5-bis[(4-hydro	oxy-2-methyl-5-sulfo	phenyl)methyl]-4-methylbenzenesulfonic a
	oxicity in vitro		terial reverse mutation assay (AMES)
		Result: negative	e
Carcir	nogenicity		
Not cla	assified based on avail	ilable information.	
-	ductive toxicity		
	assified based on avai	lable information.	
-	onents:		
2-Hyd id:	roxy-3,5-bis[(4-hydro	oxy-2-methyl-5-sulfo	phenyl)methyl]-4-methylbenzenesulfonic a
Effects	s on fertility		ility/early embryonic development
		Species: Rat Application Rot	
		Result: negative	
			ility/early embryonic development



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	6111718-00011	Date of first issue: 2020/07/15

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:

2-Hydroxy-3,5-bis[(4-hydroxy-2-methyl-5-sulfophenyl)methyl]-4-methylbenzenesulfonic acid:

:	Rat
:	150 mg/kg
:	Ingestion
:	3 Months
	:

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-Hydroxy-3,5-bis[(4-hydroxy-2-methyl-5-sulfophenyl)methyl]-4-methylbenzenesulfonic acid:

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded

Persistence and degradability

No data available

Bioaccumulative potential

Components:

2-Hydroxy-3,5-bis[(4-hydroxy-2-methyl-5-sulfophenyl)methyl]-4-methylbenzenesulfonic acid:

Partition coefficient: n-	:	log Pow: 1.60
octanol/water		Remarks: Calculation

Mobility in soil

No data available



Version 6.0	Revision Date: 2024/09/28	SDS Number: 6111718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
Not a Othe	rdous to the ozone la pplicable r adverse effects ata available	yer	
13. DISPC	SAL CONSIDERATIO	INS	
Wast	osal methods e from residues aminated packaging	Do not dispose Empty containe dling site for re	ccordance with local regulations. of waste into sewer. ers should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATIO	N	
Interi	national Regulations		
Prope	umber er shipping name	(2-Hydroxy-3,5 sulfophenyl)me	IQUID, ACIDIC, ORGANIC, N.O.S. 5-bis[(4-hydroxy-2-methyl-5- thyl]-4-methylbenzenesulfonic acid)
Label	ing group	: 8 : II : 8 : no	
IATA UN/IE	-DGR	: UN 3265 : Corrosive liquic (2-Hydroxy-3,5	I, acidic, organic, n.o.s. i-bis[(4-hydroxy-2-methyl-5- thyl]-4-methylbenzenesulfonic acid)
Label Packi aircra Packi	ing group ls ing instruction (cargo	: 8 : II : Corrosive : 855	
IMDG UN n	3-Code umber er shipping name	(2-Hydroxy-3,5	IQUID, ACIDIC, ORGANIC, N.O.S. -bis[(4-hydroxy-2-methyl-5-sulfophenyl)methyl nesulfonic acid)
Label EmS	ing group	: 8 : II : 8 : F-A, S-B : no	



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	6111718-00011	Date of first issue: 2020/07/15

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

ERG Code

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

: 153

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Not applicable





ersion 0	Revision Date: 2024/09/28	SDS Number: 6111718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
tions		s (Article 577-2 of the	Occupational Health and Safety Regula-
	nance on Prevention pplicable	of Hazards Due to Sp	pecified Chemical Substances
	nance on Prevention pplicable	of Lead Poisoning	
	nance on Prevention pplicable	of Tetraalkyl Lead Po	bisoning
	nance on Prevention pplicable	of Organic Solvent P	oisoning
Subs	rcement Order of the tances) pplicable	e Industrial Safety and	d Health Law - Attached table 1 (Dangero
	onous and Deleterio pplicable	us Substances Contro	ol Law
			of Specific Chemical Substances in the the Management Thereof
Not a	pplicable		
-	Pressure Gas Safet	y Act	
-	osive Control Law pplicable		
Corro	el Safety Law sive substances (Arti tached Table 1)	cle 2 and 3 of rules on a	shipping and storage of dangerous goods a
		cle 194 of The Enforce	ment Rules of Aviation Law and its Attached
Marir	ne Pollution and Sea	Disaster Prevention	etc Law
Bulk t	transportation	: Not classified a	s noxious liquid substance
	transportation		s marine pollutant
	otics and Psychotro		
Narco Not a Speci	otic or Psychotropic R pplicable	aw Material (Export / In	nport Permission) xport / Import permission)
Wast	e Disposal and Public ially Controlled Indust	-	
•	•		n the following inventories.

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



Version 6.0	Revision Date: 2024/09/28	SDS Number: 6111718-00011	Date of last issue: 2024/04/06 Date of first issue: 2020/07/15
AICS		: not determined	
DSL		: not determined	
IECSC	>	: not determined	

16. OTHER INFORMATION

Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
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.

Date format : yyyy/mm/dd

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



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
6.0	2024/09/28	6111718-00011	Date of first issue: 2020/07/15

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.

JP / EN