

according to GB/T 16483 and GB/T 17519

Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

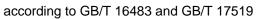
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Buparvaquone 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	:	liquid clear, red No data available
		ious eye irritation. May cause respiratory irritation. May damage attic life with long lasting effects.
GHS Classification		
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2A
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure	:	Category 3
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1





Version 4.0	Revision Date: 2024/09/28	SDS Number: 2091182-00015	Date of last issue: 2024/04/06 Date of first issue: 2017/10/17
••	label elements rd pictograms		
Signa	al word	: Danger	\mathbf{v}
Haza	rd statements	H335 May cau H360D May da	skin irritation. serious eye irritation. use respiratory irritation. amage the unborn child. cic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoc P261 Avoid br P264 Wash sk P271 Use only P273 Avoid re	eathing mist or vapours. kin thoroughly after handling. y outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		P304 + P340 - and keep com doctor if you fe P305 + P351 - for several mir easy to do. Co P308 + P313 I attention. P332 + P313 I tion. P337 + P313 I tention.	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and portinue rinsing. IF exposed or concerned: Get medical advice/ If skin irritation occurs: Get medical advice/ atten- If eye irritation persists: Get medical advice/ at- Take off contaminated clothing and wash it before
		Storage: P405 Store loc Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste





Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

Physical and chemical hazards

Not classified based on available information.

Health hazards

Causes skin irritation. Causes serious eye irritation. May damage the unborn child. May cause respiratory irritation.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
N-Methyl-2-pyrrolidone	872-50-4	>= 50 -< 70
Buparvaquone	88426-33-9	>= 2.5 -< 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.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child.
Protection of first-aiders	:	
Notes to physician	:	Treat symptomatically and supportively.



according to GB/T 16483 and GB/T 17519

Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

5. FIREFIGHTING 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 firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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 pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. 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-

according to GB/T 16483 and GB/T 17519



Buparvaquone Formulation

Version 4.0	Revision Date: 2024/09/28	SDS Number: 2091182-00015	Date of last issue: 2024/04/06 Date of first issue: 2017/10/17
		Sections 13 a	egulations are applicable. and 15 of this SDS provide information regarding or national requirements.
7. HANDL	ING AND STORAGE		
Hand	lling		
Tech	nical measures		ring measures under EXPOSURE PERSONAL PROTECTION section.
Loca	I/Total ventilation		entilation is unavailable, use with local exhaust
Advid	ce on safe handling	: Do not get or Avoid breath Do not swalle Do not get in Wash skin th Handle in acc practice, bas sessment Keep contain Already sens to asthma, al should consu- tory irritants of	eyes. oroughly after handling. cordance with good industrial hygiene and safety ed on the results of the workplace exposure as- er tightly closed. itised individuals, and those susceptible lergies, chronic or recurrent respiratory disease, it their physician regarding working with respira- or sensitisers. prevent spills, waste and minimize release to the
	dance of contact	: Oxidizing age	ents
	age litions for safe storage rials to avoid	Store locked Keep tightly o Keep in a coo Store in acco	closed. bl, well-ventilated place. rdance with the particular national regulations.
wale		Strong oxidiz	with the following product types: ing agents
Pack	aging material	: Unsuitable m	aterial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Buparvaquone	88426-33-9	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm ²	Internal



according to GB/T 16483 and GB/T 17519

Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
N-Methyl-2-pyrrolidone	872-50-4	5-Hydroxy- N-methyl-2- pyrrolidone	Urine	End of shift (As soon as possible after exposure ceases)	100 mg/l	ACGIH BEI

Engineering measures

: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless 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.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Eye/face 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 potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks Hygiene measures	:	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing 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

according to GB/T 16483 and GB/T 17519



Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear, red
Odour	:	No data available
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	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1 (20 °C)
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available



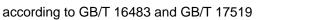
according to GB/T 16483 and GB/T 17519

rsion)	Revision Date: 2024/09/28	SDS Number: 2091182-0001	5 Date of first issue: 2024/04/06 5 Date of first issue: 2017/10/17				
Viscos	sitv						
	scosity, kinematic	: No data a	vailable				
Explosive properties : Not explosive			sive				
Oxidizing properties		: The subs	ance or mixture is not classified as oxidizing.				
	le characteristics le size	: Not applic	Not applicable				
STABI	LITY AND REACTIVITY	,					
React			fied as a reactivity hazard.				
	hical stability		der normal conditions.				
tions	bility of hazardous reac-	. Can react	with strong oxidizing agents.				
	itions to avoid	: None kno	wn.				
Condi	Incompatible materials		Oxidizing agents				
Incom							
Incom	dous decomposition		agents dous decomposition products are known.				
Incom Hazar produ	dous decomposition	: No hazaro					
Incom Hazar produ	dous decomposition cts	: No hazaro	dous decomposition products are known.				
Incom Hazar produ . TOXIC Expos	Topological Information	: No hazard TION : Inhalation Skin conta Ingestion Eye contact	dous decomposition products are known. ct				
Incom Hazar produ . TOXIC Expos Acute Not cl	Totous decomposition cts COLOGICAL INFORMAT sure routes toxicity assified based on availa	: No hazard TION : Inhalation Skin conta Ingestion Eye contact	dous decomposition products are known. ct				
Incom Hazar produ . TOXIC Expos Acute Not cl <u>Produ</u>	Totous decomposition cts CLOGICAL INFORMAT sure routes toxicity assified based on availa	: No hazard TON : Inhalation Skin conta Ingestion Eye contact ble information	dous decomposition products are known. ct ct				
Incom Hazar produ . TOXIC Expos Acute Not cl <u>Produ</u>	Totous decomposition cts COLOGICAL INFORMAT sure routes toxicity assified based on availa	 No hazard TON Inhalation Skin conta Ingestion Eye contact ble information Acute toxid 	dous decomposition products are known. ct				
Incom Hazar produ Expos Acute Not cl <u>Produ</u> Acute	Totous decomposition cts CLOGICAL INFORMAT sure routes toxicity assified based on availa	 No hazard TON Inhalation Skin conta Ingestion Eye contact ble information Acute toxid 	dous decomposition products are known. ct ct ct				
Incom Hazar produ Expos Acute Not cl <u>Produ</u> Acute	Cological information Cological information Sure routes Cological information Sure routes Sure route	 No hazard TON Inhalation Skin conta Ingestion Eye contact ble information Acute toxid 	dous decomposition products are known. ct ct ct				
Incom Hazar produ TOXIC Expos Acute Not cl <u>Produ</u> Acute	Concents:	 No hazard TION Inhalation Skin conta Ingestion Eye contact ble information Acute toxic Method: C 	dous decomposition products are known. ct ct ct				
Incom Hazar produ Expos Acute Not cl Produ Acute	Topological information cts COLOGICAL INFORMAT sure routes toxicity assified based on availa uct: oral toxicity conents: thyl-2-pyrrolidone:	 No hazard TON Inhalation Skin conta Ingestion Eye contact ble information Acute toxic Method: C LD50 (Ratt Exposure Test atmost 	ct ct ct ct ct ct ct ct ct ct ct ct ct c				
Incom Hazar produ Expos Acute Not cl Produ Acute Acute Acute	COLOGICAL INFORMAT Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solutio	 No hazard TON Inhalation Skin conta Ingestion Eye contact ble information Acute toxic Method: C LD50 (Ratt Exposure Test atmost Method: O 	ct ct ct ct : : : 2000 mg/kg alculation method): 4,150 mg/kg): > 5.1 mg/l time: 4 h sphere: dust/mist				



according to GB/T 16483 and GB/T 17519

Version 4.0	Revision Date: 2024/09/28		OS Number: 91182-00015	Date of last issue: 2024/04/06 Date of first issue: 2017/10/17
Acute	oral toxicity	:	LD50 (Rat): > 8,0	00 mg/kg
			LD50 (Mouse): > Remarks: No mor	50 mg/kg tality observed at this dose.
	toxicity (other routes of istration)	:	LD50: 2.5 mg/kg Application Route	: Intravenous
	corrosion/irritation es skin irritation.			
<u>Comp</u>	oonents:			
N-Met	hyl-2-pyrrolidone:			
Result	t	:	Skin irritation	
Bupar	rvaquone:			
Specie Result	es	:	Mouse Mild skin irritation	
	us eye damage/eye irri es serious eye irritation.	tati	on	
<u>Comp</u>	oonents:			
N-Met	hyl-2-pyrrolidone:			
Specie Result		:	Rabbit Irritation to eyes,	reversing within 21 days
Bupa Result	r vaquone: t	:	Mild eye irritation	
Resni	ratory or skin sensitis	atic	n	
-	sensitisation			
	assified based on availa	ble	information.	
-	ratory sensitisation assified based on availa	ble	information.	
Comp	oonents:			
N-Met	hyl-2-pyrrolidone:			
Test T		:	Local lymph node	assay (LLNA)
Expos Specie	sure routes es	:	Skin contact Mouse	
Metho	d	:	OECD Test Guide	eline 429
Result Rema		:	negative Based on data fro	om similar materials





Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

Germ cell mutagenicity

Not classified based on available information.

Components:

Genotoxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro)
Genotoxicity in vivo	 Result: negative Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
	Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Hamster Application Route: Ingestion Method: OECD Test Guideline 475 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

N-Methyl-2-pyrrolidone:

Species Application Route Exposure time Result	:	Rat Ingestion 2 Years negative
Species Application Route Exposure time Result	:	Rat inhalation (vapour) 2 Years negative

according to GB/T 16483 and GB/T 17519



Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

Reproductive toxicity

May damage the unborn child.

Components:

N-Methyl-2-pyrrolidone:		
Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive
		Test Type: Fertility/early embryonic development Species: Rat Application Route: inhalation (vapour) Result: positive
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: positive
Reproductive toxicity - As- sessment	:	Clear evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components:

N-Methyl-2-pyrrolidone:

Assessment

: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

N-Methyl-2-pyrrolidone:

: Rat, male
: 169 mg/kg
: 433 mg/kg
: Ingestion

according to GB/T 16483 and GB/T 17519



Buparvaquone Formulation

Version 4.0	Revision Date: 2024/09/28	SDS Number: 2091182-0001	Date of last issue: 2024/04/06 5 Date of first issue: 2017/10/17
Expos	sure time	: 90 Days : OECD Test	t Guideline 408
	EL EL cation Route sure time	: 96 Days	dust/mist/fume) t Guideline 413
	EL	: Rabbit : 826 mg/kg : 1,653 mg/k : Skin contac : 20 Days	
Speci NOAE Applic	EL cation Route sure time ırks	: Cat : 10 mg/kg : Intramuscu : 5 d : No significa : 5 mg/kg	lar ant adverse effects were reported
	cation Route sure time irks	: Intravenous : 4 d	s ant adverse effects were reported
	EL cation Route sure time	: Mouse : 50 mg/kg : Oral : 6 d : No significa	ant adverse effects were reported
•	ation toxicity assified based on ava	ailable information.	
Expe	rience with human e	xposure	
<u>Comp</u>	oonents:		
N-Met Skin o	thyl-2-pyrrolidone: contact	: Symptoms:	Skin irritation

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

N-Methyl-2-pyrrolidone:

according to GB/T 16483 and GB/T 17519



sion	Revision Date: 2024/09/28		91182-00015	Date of last issue: 2024/04/06 Date of first issue: 2017/10/17
Toxicit	ty to fish	:	LC50 (Oncorhynd Exposure time: 9	chus mykiss (rainbow trout)): > 500 mg/l 6 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 2 Method: DIN 384	
Toxicit plants	ty to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	smus subspicatus (green algae)): 600.5 n 2 h
			EC10 (Desmodes Exposure time: 7	smus subspicatus (green algae)): 92.6 mg 2 h
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia Exposure time: 2 Method: OECD T	
Toxicit	ty to microorganisms	:	EC50: > 600 mg/ Exposure time: 30 Method: ISO 819) min
Bupar	rvaquone:			
	ty to fish	:	Exposure time: 9	io rerio (zebrafish)): 0.484 mg/l 5 h est Guideline 203
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.013 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
	tor (Acute aquatic tox-	:	10	
icity) M-Fac toxicity	ctor (Chronic aquatic y)	:	10	
Persis	stence and degradabili	ity		
<u>Comp</u>	onents:			
	hyl-2-pyrrolidone: gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	73 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
	hyl-2-pyrrolidone:			
Partitio	on coefficient: n-	:	log Pow: -0.46	



according to GB/T 16483 and GB/T 17519

Version 4.0	Revision Date: 2024/09/28		DS Number: 91182-00015	Date of last issue: 2024/04/06 Date of first issue: 2017/10/17
octan	ol/water		Method: OECD	Test Guideline 107
Partiti	rvaquone: on coefficient: n- ol/water	:	log Pow: 6.5	
	l ity in soil ata available			
	r adverse effects ata available			
13. DISPO	SAL CONSIDERATION	IS		
Dispo	osal methods			
	e from residues	:	Dispose of in ad	of waste into sewer. cordance with local regulations.
Conta	minated packaging	:	dling site for rec	rs should be taken to an approved waste han- cycling or disposal. specified: Dispose of as unused product.
	FDG umber er shipping name	:		TALLY HAZARDOUS SUBSTANCE, LIQUID,
		:		TALLY HAZARDOUS SUBSTANCE, LIQUID,
Label	ng group	:	(Buparvaquone 9 III 9 yes	?)
	-	•	<i>j</i> 00	
UN/IE Prope) No. er shipping name	:	UN 3082 Environmentally (Buparvaguone	v hazardous substance, liquid, n.o.s.
Label Packi	ng group s ng instruction (cargo	:	9 III Miscellaneous 964	·)
	ft) ng instruction (passen- rcraft)	:	964	
	onmentally hazardous	:	yes	
UN ni	i -Code umber er shipping name	:	UN 3082 ENVIRONMEN	TALLY HAZARDOUS SUBSTANCE, LIQUID,



according to GB/T 16483 and GB/T 17519

Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

		N.O.S. (Buparvaquone)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Buparvaquone)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no
-		

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.

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases
Regulations on Safety Management of Hazardous Chemicals
Catalogue of Hazardous Chemicals : 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.
Identification of Major Hazard Installations for Hazardous Chemicals (GB : Not listed 18218)
Hazardous Chemicals for Priority Management under : Not listed SAWS
Regulations on Labour Protection in Workplaces where Toxic Substances are Used
Catalogue of Highly Toxic Chemicals : Not listed



according to GB/T 16483 and GB/T 17519

Buparvaquone Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
4.0	2024/09/28	2091182-00015	Date of first issue: 2017/10/17

Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import : Not listed and Export

Regulation on the Administration of Precursor Chemicals

Catalogue and Classification of Precursor Chemicals : Not listed

Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

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

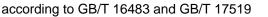
16. OTHER INFORMATION

Revision Date	:	2024/09/28
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
Full text of other abbreviation	ons	
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)

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 Or-





Buparvaquone Formulation

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ganisation 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

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.

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