according to GB/T 16483 and GB/T 17519



Ethion Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	10597651-00009	Date of first issue: 2022/01/28

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Ethion Formulation						
Manufacturer or supplier's details								
Company	:	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 ch	em	ical and restrictions on use						
Recommended use Restrictions on use	:	Pharmaceutical Not applicable						

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance Colour Odour	:	liquid No data available No data available		
Fatal if swallowed or in contact with skin. Causes mild skin irritation. Causes serious eye damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.				
GHS Classification				
Acute toxicity (Oral)	:	Category 2		
Acute toxicity (Inhalation)	:	Category 3		
Acute toxicity (Dermal)	:	Category 2		
Skin corrosion/irritation	:	Category 3		
Serious eye damage/eye irri- tation	:	Category 1		
Specific target organ toxicity - single exposure	:	Category 1		



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	ecific target organ toxicity - eated exposure	:	Category 1	
	ort-term (acute) aquatic ard	:	Category 1	
	ng-term (chronic) aquatic ard	:	Category 1	
GH	S label elements			
Haz	zard pictograms	:		
Sig	nal word	:	Danger	• • •
Haz	zard statements	:	H316 Causes m H318 Causes se H331 Toxic if inh H370 Causes da H372 Causes da exposure.	rious eye damage.
Pre	cautionary statements	:	Prevention:	
			P260 Do not bre P262 Do not get P264 Wash skin P270 Do not eat P271 Use only o P273 Avoid relea	athe mist or vapours. in eyes, on skin, or on clothing. thoroughly after handling. , drink or smoke when using this product. utdoors or in a well-ventilated area. ase to the environment. ective gloves/ protective clothing/ eye protec- tion.
			Response:	
			POISON CENTE P302 + P352 + F Immediately call P304 + P340 + F and keep comfor doctor. P305 + P351 + F water for severa	 P330 IF SWALLOWED: Immediately call a P310 IF ON SKIN: Wash with plenty of water. a POISON CENTER/ doctor. P311 IF INHALED: Remove person to fresh air rtable for breathing. Call a POISON CENTER/ P338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON
			P308 + P311 IF CENTER/ doctor	exposed or concerned: Call a POISON

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tion.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse. P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

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

Physical and chemical hazards

Not classified based on available information.

Health hazards

Fatal if swallowed. Toxic if inhaled. Fatal in contact with skin. Causes mild skin irritation. Causes serious eye damage. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

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)
Ethion	563-12-2	>= 70 -< 90
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	>= 3 -< 10

4. FIRST AID MEASURES

General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 immediately. Wash clothing before reuse. Destroy contaminated shoes.

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	In case	of eye contact	:	for at least 15 min If easy to do, reme	ove contact lens, if worn.
	If swall	owed	:	so by medical per Call a physician o Rinse mouth thore	NOT induce vomiting unless directed to do sonnel. r poison control centre immediately.
		nportant symptoms ects, both acute and d	:	Fatal if swallowed Causes mild skin Causes serious e Toxic if inhaled. Causes damage t	l or in contact with skin. irritation. ye damage.
	Protect	ion of first-aiders	:	First Aid responde and use the recor	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
	Notes t	o physician	:	Treat symptomation	cally and supportively.
5. F	5. FIREFIGHTING MEASURES				
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Sulphur oxides Oxides of phosph	orus
	Specific ods	c 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 ighters	:		e, wear self-contained breathing apparatus. ective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Evacuate personnel to safe areas.

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	quipment and emer- procedures	Follow safe I	personnel should re-enter the area. nandling advice (see section 7) and personal pro- ment recommendations (see section 8).
Enviro	onmental precautions	Prevent furth Prevent spre barriers). Retain and d	e to the environment. her leakage or spillage if safe to do so. eading over a wide area (e.g. by containment or oil lispose of contaminated wash water. ities should be advised if significant spillages ontained.
	ods and materials for inment and cleaning up	For large spi ment to keep be pumped, Clean up ren bent. Local or nation posal of this employed in mine which r Sections 13	in inert absorbent material. Ils, provide dyking or other appropriate contain- o material from spreading. If dyked material can store recovered material in appropriate container. naining materials from spill with suitable absor- onal regulations may apply to releases and dis- material, as well as those materials and items the cleanup of releases. You will need to deter- regulations are applicable. and 15 of this SDS provide information regarding or national requirements.

7. HANDLING AND STORAGE

Handling

J		
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 mist or vapours. 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up.

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Mat	erials to avoid	:	Store in accordar	ed. rell-ventilated place. nce with the particular national regulations. the following product types:
Pac	kaging material	:	Unsuitable mater	ial: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Ethion	563-12-2	TWA	4 µg/m3 (OEB 4)	Internal	
	Further information: Skin				
		Wipe limit	40 µg/100 cm2	Internal	
		TWA (Inhal- able fraction and vapor)	0.05 mg/m3	ACGIH	

Components with workplace control parameters

Engineering measures	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologie If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the poter tial exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.	у
Personal protective equipme		
Respiratory protection	If adequate local exhaust ventilation is not available or expo sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.)-
Filter type Eye/face protection	Organic vapour type 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 potentiall contaminated clothing.	
Hand protection	containination of our ing.	

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	aterial	: Chemical-resi : Consider doul	5
	ne measures	: If exposure to eye flushing s ing place. When using d Wash contam The effective engineering c appropriate de industrial hygi	chemical is likely during typical use, provide ystems and safety showers close to the work- o not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
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)	:	Not applicable
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	:	No data available
Density	:	No data available

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Solubility(ies)		
Water solubility	: No data availabl	e
Partition coefficient: n- octanol/water	: Not applicable	
Auto-ignition temperature	: No data availabl	e
Decomposition temperatu	re : No data availabl	e
Viscosity Viscosity, kinematic	: No data availabl	e
Explosive properties	: Not explosive	
Oxidizing properties	: The substance of	or mixture is not classified as oxidizing.
Molecular weight	: No data availabl	e
Particle characteristics Particle size	: Not applicable	
10. STABILITY AND REACTI	VITY	
Reactivity Chemical stability Possibility of hazardous n tions	: Stable under nor	a reactivity hazard. rmal conditions. trong oxidizing agents.
Conditions to avoid Incompatible materials	: None known. : Oxidizing agents	,
Hazardous decomposition products		ecomposition products are known.
11. TOXICOLOGICAL INFOR	MATION	
Exposure routes	: Inhalation Skin contact Ingestion Eye contact	
Acute toxicity Fatal if swallowed or in co Toxic if inhaled.	ntact with skin.	
Product:		
Acute oral toxicity	: Acute toxicity est Method: Calculat	imate: 14.87 mg/kg ion method
Acute inhalation toxicity	: Acute toxicity est	imate: 0.515 mg/l

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ersion .0	Revision Date: 2024/09/28		S Number: 597651-00009	Date of last issue: 2024/04/06 Date of first issue: 2022/01/28
			Test atmosphere Method: Calculat	
Acute	e dermal toxicity	:	Acute toxicity est Method: Calculat	timate: 70.95 mg/kg tion method
<u>Com</u>	oonents:			
Ethio	n:			
Acute	e oral toxicity	:	LD50 (Rat): 13 m	ng/kg
Acute	inhalation toxicity	:	LC50 (Rat): 0.45 Exposure time: 4 Test atmosphere	h
Acute	e dermal toxicity	:	LD50 (Rat): 62 m	ng/kg
Alcoł	nols, C11-14-iso-, C13 [.]	-rich,	ethoxylated:	
Acute	e oral toxicity	:	LD50 (Rat): > 2,0	000 - 3,340 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
-	corrosion/irritation es mild skin irritation.			
Com	oonents:			
Ethio	n:			
Speci Resu		:	Rabbit Mild skin irritatior	n
Serio	us eye damage/eye ir	ritatio	on	
Caus	es serious eye damage			
<u>Com</u>	oonents:			
Ethio				
Resu	lt	:	No eye irritation	
Alcoł	nols, C11-14-iso-, C13 [.]	-rich,	ethoxylated:	
Resu	lt	:	Irreversible effec	ts on the eye
Resp	iratory or skin sensiti	satio	n	
Skin	sensitisation			

Not classified based on available information.

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Respiratory sensitisation

Not classified based on available information.

Components:

Ethion:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Ethion:

Genotoxicity in vitro		Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Result: negative
		Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative
		Test Type: in vitro micronucleus test Result: positive
Genotoxicity in vivo	:	Test Type: Chromosomal aberration Species: Rat Result: negative
		Test Type: In vivo micronucleus test Species: Mouse Result: positive
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

Components:

Ethion:

Species	: Rat
Application Route	: Ingestion
Exposure time	: 18 Months
Result	: negative

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Species	:	Mouse
Application Route	:	Ingestion
Exposure time Result	:	24 Months
Result	:	negative

Reproductive toxicity

Not classified based on available information.

Components:

Ethion:

Effects on fertility	:	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

STOT - single exposure

Causes damage to organs.

Components:

Ethion:

Assessment : Causes damage to organs.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Ethion:

Target Organs	
Assessment	

Central nervous systemCauses damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Ethion:

: Dog
: 0.05 mg/kg
: Ingestion
: 90 Days

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Aspira	ation toxicity				
	assified based on availa				
Exper	ience with human exp	osu	ire		
<u>Comp</u>	onents:				
Ethio					
Ingest	ion	:	Symptoms: Blur	red vision, Dizziness, Headache	
2. ECOLO	DGICAL INFORMATION	1			
Ecoto	xicity				
Comp	onents:				
Ethio	n:				
Toxici	ty to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 0.18 mg/ 96 h	
	ty to daphnia and other c invertebrates	:	EC50: 0.056 - 7.7 μg/l Exposure time: 48 h		
M-Fac	tor (Acute aquatic tox-	:	10,000		
icity) M-Fac toxicity	ctor (Chronic aquatic y)	:	10,000		
Alcoh	ols, C11-14-iso-, C13-r	ich	, ethoxylated:		
Toxici	ty to fish	:	LC50 : > 1 - 10 Exposure time:	0	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	sp. (water flea)): > 1 - 10 mg/l 48 h	
Toxici plants	ty to algae/aquatic	:	EC50: > 1 - 10 mg/l Exposure time: 72 h		
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): > 0.1 mg/l Exposure time: 30 d Remarks: Based on data from similar materials		
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia magna (Water flea)): > 0.1 - 1 mg/l Exposure time: 21 d Remarks: Based on data from similar materials		

Components:

Ethion:

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Biode	egradability	:	Result: not rapid	ly degradable
	nols, C11-14-iso-, C13	-rich	, ethoxylated:	
Biode	egradability	:	Result: Readily I	biodegradable.
Bioa	ccumulative potential			
Com	ponents:			
	n: ion coefficient: n- ol/water	:	log Pow: 5.07	
	lity in soil ata available			
	r adverse effects ata available			
3. DISPO	SAL CONSIDERATIO	NS		
Dien	asal mothods			
•	osal methods e from residues	:		of waste into sewer.
Wast		:	Dispose of in ac Empty container dling site for recy	cordance with local regulations.
Wast Conta	e from residues	: : N	Dispose of in ac Empty container dling site for recy	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal.
Wast Conta	e from residues aminated packaging SPORT INFORMATIO	: : N	Dispose of in ac Empty container dling site for recy	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal.
Wast Conta 14. TRAN Intern	e from residues aminated packaging SPORT INFORMATIO national Regulations	: : N	Dispose of in ac Empty container dling site for recy	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal.
Wast Conta 4. TRAN Intern UNR	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG	: : N	Dispose of in ac Empty container dling site for rec If not otherwise	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal.
Wast Conta 4. TRAN Intern UNR UN n	e from residues aminated packaging SPORT INFORMATIO national Regulations	: : N	Dispose of in ac Empty container dling site for recy If not otherwise s UN 2810 TOXIC LIQUID,	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal.
Wast Conta 4. TRAN Intern UNR UN n Prope Class	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name	: : N	UN 2810 TOXIC LIQUID, (Ethion) 6.1	cordance with local regulations. s should be taken to an approved waste han- cling or disposal. specified: Dispose of as unused product.
Wast Conta 4. TRAN Intern UN n Prope Class Packi	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name	: : N	Dispose of in ac Empty container dling site for recy If not otherwise a UN 2810 TOXIC LIQUID, (Ethion) 6.1 II	cordance with local regulations. s should be taken to an approved waste han- cling or disposal. specified: Dispose of as unused product.
Wast Conta I4. TRAN Intern UN n Prope Class Packi Labe	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name	:	UN 2810 TOXIC LIQUID, (Ethion) 6.1	cordance with local regulations. s should be taken to an approved waste han- cling or disposal. specified: Dispose of as unused product.
Wast Conta I4. TRAN Intern UNR UN n Prope Class Packi Label Envir IATA	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name s ng group s onmentally hazardous -DGR	:	Dispose of in ac Empty container dling site for recy If not otherwise s UN 2810 TOXIC LIQUID, (Ethion) 6.1 II 6.1 no	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal. specified: Dispose of as unused product.
Wast Conta 14. TRAN Intern UNR UN n Prope Class Packi Labe Envir IATA UN/II	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name s ng group s onmentally hazardous -DGR	N	UN 2810 TOXIC LIQUID, (Ethion) 6.1 II 6.1 no UN 2810 TOXIC liquid, orga	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal. specified: Dispose of as unused product.
Vast Conta I4. TRAN Intern UN n Prope Class Packi Labe Envir IATA UN/II	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name s onmentally hazardous -DGR D No. er shipping name	: N : : : : : : : : : : : : : : :	UN 2810 TOXIC LIQUID, (Ethion) 6.1 II 6.1 no UN 2810	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal. specified: Dispose of as unused product.
Wast Conta Id. TRAN Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope Class Packi	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name s onmentally hazardous -DGR O No. er shipping name s ong group	:	Dispose of in ac Empty container dling site for recy If not otherwise s UN 2810 TOXIC LIQUID, (Ethion) 6.1 II 6.1 no UN 2810 Toxic liquid, orga (Ethion) 6.1 II	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal. specified: Dispose of as unused product.
Wast Conta Id. TRAN Intern UNR UN n Prope Class Packi Label Envir IATA UN/II Prope Class Packi Label	e from residues aminated packaging SPORT INFORMATIO national Regulations TDG umber er shipping name s onmentally hazardous -DGR O No. er shipping name s ong group		UN 2810 TOXIC LIQUID, (Ethion) 6.1 II 6.1 no UN 2810 Toxic liquid, orga (Ethion) 6.1	cordance with local regulations. s should be taken to an approved waste han- /cling or disposal. specified: Dispose of as unused product.





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	ing instruction (passen- ircraft)	:	654	
UN n	3-Code umber er shipping name	:	UN 2810 TOXIC LIQUID, (Ethion)	ORGANIC, N.O.S.
Labe EmS	ing group	:	6.1 II 6.1 F-A, S-A yes	
	sport in bulk according	-		POL 73/78 and the IBC Code

National Regulations

GB 6944/12268		
UN number	:	UN 2810
Proper shipping name	:	TOXIC LIQUID, ORGANIC, N.O.S. (Ethion)
Class	:	6.1
Packing group	:	II
Labels	:	6.1
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 r	egulatory information		
Law on th	e Prevention and Control of Occup	ational Diseases	
Regulatio	ns on Safety Management of Hazar	dous Chemicals	
Catalogue	of Hazardous Chemicals	: Listed	
	on of Major Hazard Installations for Ha	azardous Chemicals (•

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)No. / CodeChemical name / CategoryThreshold quantityJ5Acute toxic500 tHazardous Chemicals for Priority Management under:ListedSAWS

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



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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 is 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 Agency, 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	ns	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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

according to GB/T 16483 and GB/T 17519



Ethion Formulation

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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

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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