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## **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Interferon Alfa-2b Liquid Formulation
Supplier's company name, ac Company name of supplier		
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	:	Pharmaceutical
Restrictions on use	:	Not applicable

## 2. HAZARDS IDENTIFICATION

GHS classification of chemic Reproductive toxicity		product Category 1B
Specific target organ toxicity - repeated exposure	:	Category 2 (Blood, Bone marrow)
GHS label elements Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs (Blood, Bone marrow) through prolonged or repeated exposure.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapours. P280 Wear protective gloves/ protective clothing/ eye protec-





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tion/ face protection.

#### Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

## Storage:

P405 Store locked up.

### Disposal:

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

# Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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### Components

CAS-No.	Concentration (% w/w)	ENCS No.
108-39-4	>= 0.1 - < 1	3-499, 4-57
139-33-3	< 0.1	2-1265
98530-12-2	>= 0.001 - < 0.1	-
	108-39-4       139-33-3	108-39-4     >= 0.1 - < 1

## 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 soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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 Protection of first-aiders	:	



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Notes	s to physician	:	when the potentia	nmended personal protective equipment al for exposure exists (see section 8). cally and supportively.
5. FIREFI	GHTING MEASURES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
Spec fightir	ific hazards during fire- ng	:	Exposure to com	pustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	No hazardous co	mbustion products are known
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.
	ENTAL RELEASE MEA			tective equipment.

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-



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		employed in th mine which re Sections 13 ar	naterial, as well as those materials and items the cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
Hand	-		
Tech	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ver	ntilation is unavailable, use with local exhaust
Avoid	e on safe handling lance of contact one measures	Do not breathe Do not swallow Avoid contact Handle in acco practice, base sessment Keep containe Take care to p environment. Oxidizing ager If exposure to flushing syster place. When using do Wash contami The effective of engineering co appropriate de	with eyes. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- er tightly closed. orevent spills, waste and minimize release to the
Stora	ige		strative controls.
	itions for safe storage	Store locked u Keep tightly cl Store in accor	osed. dance with the particular national regulations.
Matei	rials to avoid	: Do not store w Strong oxidizir	rith the following product types: ng agents
Packa	aging material	: Unsuitable ma	terial: None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components CAS-No. Value type Control parame- Basis
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		(Form of exposure)	ters / Concentra- tion standard / Permissible con- centration	
m-Cresol	108-39-4	ACL	5 ppm	JP OEL ISHL
		OEL-M	5 ppm 22 mg/m3	JP OEL JSOH
	Further inform	ation: Skin abso	rption	
		TWA (Inhal- able fraction and vapor)	20 mg/m3	ACGIH
Interferon alfa-2b	98530-12-2	TWA	0.2 µg/m3 (OEB 5)	Internal
		Wipe limit	2 µg/100 cm <sup>2</sup>	Internal

Engineering measures	<ul> <li>Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.</li> <li>All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.</li> <li>No open handling permitted.</li> <li>Totally enclosed processes and materials transport systems are required.</li> <li>Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.</li> </ul>
Personal protective equipme	nt
Respiratory protection	<ul> <li>No personal respiratory protective equipment normally re- quired.</li> </ul>
Hand protection	quireu.
Material	Chemical-resistant gloves
Remarks Eye protection Skin and body protection	<ul> <li>Consider double gloving.</li> <li>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.</li> <li>Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state



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	Colour		:	colourless	
	Odour		:	No data available	)
	Odour T	hreshold	:	No data available	
	Melting	point/freezing point	:	No data available	
		point, initial boiling d boiling range	:	No data available	
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	)
	Uppe	xplosion limit and uppo er explosion limit / Up- ammability limit			
		er explosion limit / er flammability limit	:	No data available	
	Flash po	bint	:	No data available	)
	Decomp	osition temperature	:	No data available	
	рН		:	6.5 - 8	
	Evapora	ition rate	:	No data available	
	Auto-ign	ition temperature	:	No data available	)
	Viscosity Visco	y osity, kinematic	:	No data available	
	Solubilit Wate	y(ies) er solubility	:	No data available	
	Partition octanol/	coefficient: n- water	:	Not applicable	
	Vapour	pressure	:	No data available	)
		and / or relative densit tive density	ty :	No data available	)
	Dens	sity	:	No data available	)
	Relative	vapour density	:	No data available	9
	Explosiv	ve properties	:	Not explosive	





ersion 0.0	Revision Date: 2024/09/28		S Number: 312-00020	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07			
Oxidiz	zing properties	:	The substance	or mixture is not classified as oxidizing.			
Molec	cular weight	:	Not applicable				
Particle characteristics Particle size		:	Not applicable				
0. STABI		Y					
Possil tions Condi Incom	ical stability bility of hazardous reac- tions to avoid patible materials dous decomposition		Stable under no Can react with None known. Oxidizing agen	s a reactivity hazard. ormal conditions. strong oxidizing agents. ts decomposition products are known.			
1. TOXIC	OLOGICAL INFORMA	TION	l				
Inform expos	nation on likely routes of sure	† :	Inhalation Skin contact Ingestion Eye contact				
Acute	e toxicity						
Not cl	assified based on availa	able i	nformation.				
<u>Produ</u>	uct:						
Acute	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method			
Acute	dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg stion method			
Comp	oonents:						
m-Cre	esol:						
Acute	oral toxicity	:	LD50 (Rat): 121 Remarks: Base	mg/kg d on data from similar materials			
Acute	inhalation toxicity	:	Assessment: Co	prrosive to the respiratory tract.			
			LD50 (Rabbit): 3				

Ethylenediaminetetraacetic acid disodium salt:



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Acute	e oral toxicity	:	LD50 (Rat): 2,800	) mg/kg				
Acute	Acute inhalation toxicity		LC50 (Rat, male): > 1 mg/l Exposure time: 6 h Test atmosphere: dust/mist Method: OECD Test Guideline 412					
	corrosion/irritation							
_	lassified based on avail	able	information.					
	ponents:							
<b>m-Cr</b> Speci Resu	ies	:	Rabbit Corrosive after 3	minutes to 1 hour of exposure				
Interf	eron alfa-2b:							
Speci Resu		:	Rat Skin irritation					
Resu	IL	•	Skin imation					
	<b>us eye damage/eye ir</b> lassified based on avail							
<u>Com</u>	ponents:							
m-Cr			Data					
Speci Resu		:	Rabbit Irreversible effect	s on the eye				
Ethvl	enediaminetetraacetic	: aci	d disodium salt:					
Speci	ies	:	Rabbit					
Resu	It	÷	No eye irritation					
	eron alfa-2b:							
Speci Rema		:	Rabbit slight irritation					
Resp	Respiratory or skin sensitisation							
-	<b>sensitisation</b> lassified based on avail	able	information.					
-	iratory sensitisation lassified based on avail	able	information.					
Com	Components:							
Ethyl	enediaminetetraacetic	c aci	d disodium salt:					
Test Expo	Type sure routes	:	Maximisation Tes Skin contact	st				
			8 / 19					





ersion 0.0	Revision Date: 2024/09/28	SDS Number:Date of last issue: 2024/04/0642812-00020Date of first issue: 2015/01/07
Specie Metho Result Rema	d	<ul> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> <li>negative</li> <li>Based on data from similar materials</li> </ul>
Not cla	cell mutagenicity assified based on av onents:	ailable information.
m-Cre		
	oxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: positive
		Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
Genot	oxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 475 Result: negative
II Ethyle	enediaminetetraace	tic acid disodium salt:
	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materials
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative Remarks: Based on data from similar materials
Genot	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in cytogenetic assay) Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
11	eron alfa-2b:	
Interfe		: Test Type: Chromosome aberration test in vitro
	oxicity in vitro	Result: negative



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Genc	otoxicity in vivo	Species: Mo Result: nega	
Carc	inogenicity		
Not c	lassified based on avail	able information.	
Com	ponents:		
m-Cr	esol:		
	cation Route sure time It	: Mouse, male : Ingestion : 105 weeks : equivocal : Based on da	s ta from similar materials
	cation Route sure time It	: Mouse, fema : Ingestion : 106 - 107 we : positive : Based on da	
Carci ment	nogenicity - Assess-	: Weight of ev cinogen	dence does not support classification as a car-
Ethy	lenediaminetetraacetic	c acid disodium s	alt:
Spec Appli	ies cation Route sure time It	: Rat : Ingestion : 103 weeks : negative	ta from similar materials
Repr	oductive toxicity		
-	damage fertility. May da	mage the unborn o	shild.
	ponents:	-	
m-Cr			
	ts on fertility	Species: Rat	Route: Ingestion
Effec ment	ts on foetal develop-	Species: Rat	Route: Ingestion





ersion D.0	Revision Date: 2024/09/28		OS Number: 812-00020	Date of last issue: 2024/04/06 Date of first issue: 2015/01/07
Ethyle	nediaminetetraaceti	c aci	d disodium sal	lt:
Effects	on fertility	:	Species: Rat Application Ro Result: negative	
Effects ment	on foetal develop-	:	Test Type: Em Species: Rat Application Ro Result: negativ	
Interfe	ron alfa-2b:			
Effects	on fertility	:	Species: Moni Fertility: LOAE	EL: 3.8 μg/kg rual irregularities
Effects ment	on foetal develop-	:	Species: Monl	al Ťoxicity: LOAEL: 3.8 µg/kg body weigł
Reproc sessm	ductive toxicity - As- ent	:	May damage f	ertility. May damage the unborn child.
	- single exposure	labla	information	
	ssified based on avail		inionnalion.	

## STOT - repeated exposure

May cause damage to organs (Blood, Bone marrow) through prolonged or repeated exposure.

## Components:

### Ethylenediaminetetraacetic acid disodium salt:

		inhalation (dust/mist/fume)
Target Organs	•	Respiratory Tract
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

### Interferon alfa-2b:

Target Organs Assessment	: Blood, Bone marrow
Assessment	: May cause damage to organs through prolonged or repeated
	exposure.

### Repeated dose toxicity

### **Components:**

m-Cresol:



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	EL cation Route sure time	: Rat : 150 n : Inges : 13 W : OECI	tion	eline 408
Ethyl	lenediaminetetraace	ic acid diso	dium salt:	
Spec NOAI Appli Expo	ies EL cation Route sure time	: Rat : 500 n : Inges : 13 W	ng/kg stion	
	EL cation Route sure time	: 4 We	ation (dust/m	
Spec NOAI Appli Expo Rema	EL cation Route sure time arks	: Intran : 1 Moi : No si	5 mg/kg nuscular nths	erse effects were reported
	EL cation Route sure time	: Subc : 3 Moi		erse effects were reported
	EL cation Route sure time	: Intrap : 9 d	6 mg/kg peritoneal	erse effects were reported
Expo	EL cation Route sure time et Organs	: Intrar : 3 Moi : Blood	mg/kg nuscular nths J, Bone marr	ow observed in testing

## Aspiration toxicity

Not classified based on available information.



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Expe	rience with human exp	osu	re		
<u>Com</u>	oonents:				
	eron alfa-2b: contact	:	Symptoms: The toms, Fever, chi	most common side effects are:, flu-like symp ills, Fatigue	
. ECOL	OGICAL INFORMATION	١			
Ecoto	oxicity				
Com	oonents:				
m-Cr	esol:				
Toxic	ity to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 8.6 mg/l 96 h	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia pulex (Water flea)): > 99.5 mg/l Exposure time: 48 h		
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): 1.35 mg/l Exposure time: 32 d Remarks: Based on data from similar materials		
	ity to daphnia and other ic invertebrates (Chron- icity)	:	: NOEC (Daphnia magna (Water flea)): 1 mg/l Exposure time: 21 d Remarks: Based on data from similar materials		
Ethyl	enediaminetetraacetic	aci	d disodium salt:		
Toxic	ity to fish	:	Exposure time:	macrochirus (Bluegill sunfish)): > 100 mg/l 96 h d on data from similar materials	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time: Method: DIN 38		
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: Method: OECD	kirchneriella subcapitata (green algae)): > 10 72 h Test Guideline 201 d on data from similar materials	
			mg/l Exposure time: Method: OECD	irchneriella subcapitata (green algae)): > 1 72 h Test Guideline 201 d on data from similar materials	
Tovic	ity to daphnia and other		NOFC (Daphnia	a magna (Water flea)): 25 mg/l	



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ic tox Toxic	ity to microorganisms	:	Exposure time: 2 <sup>4</sup> EC10 (activated s Exposure time: 30 Method: OECD T	sludge): > 500 mg/l ) min
Persi	stence and degradabili	ity		
Com	ponents:			
<b>m-Cr</b> Biode	<b>esol:</b> egradability	:	Result: Readily bi Biodegradation: 5 Exposure time: 28 Method: OECD T	90 %
Ethyl	enediaminetetraacetic	aci	d disodium salt:	
Biode	egradability	:	Result: Not readil Biodegradation: 2 Exposure time: 28 Method: OECD T	2 %
Bioa	ccumulative potential			
Com	ponents:			
m-Cr	esol:			
Bioac	ccumulation	:		us idus (Golden orfe) factor (BCF): 17 - 20
	ion coefficient: n- ol/water	:	log Pow: 1.96	
•	enediaminetetraacetic	aci	d disodium salt:	
Bioac	ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): < 500 on data from similar materials
	ion coefficient: n- ol/water	:	log Pow: -4.3	
Mobi	lity in soil			
No da	ata available			
	rdous to the ozone laye pplicable	ər		
	r adverse effects			
No da	ata available			



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### **13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

UNRTDG		
UN number	:	Not applicat
Proper shipping name	:	Not applicat
Class	:	Not applicat
Subsidiary risk	:	Not applicat
Packing group	:	Not applicat
Labels	:	Not applicat
Environmentally hazardous	:	no
IATA-DGR		
UN/ID No.	:	Not applicat
Proper shipping name	:	Not applicat
Class	:	Not applicat
Subsidiary risk	:	Not applicat
Packing group	:	Not applicat
Labels	:	Not applicat
Packing instruction (cargo aircraft)	:	Not applicat
Packing instruction (passen- ger aircraft)	:	Not applicat

# IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

## 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

Not applicable



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### **15. REGULATORY INFORMATION**

### **Related Regulations**

#### **Fire Service Law**

Not applicable to dangerous materials / designated flammables.

#### **Chemical Substance Control Law**

Priority Assessment Chemical Substance

Chemical name	Number
Cresol	156
Sodium salt of 2,2',2",2"'-(ethane-1,2-diyldinitrilo)tetraacetic acid	268

#### 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

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Cresol	>=0.1 - <1	_

### Substances Subject to be Indicated Names

Not applicable

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

Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable





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	ance on Preventior	of Organic Solvent I	Poisoning
Subs	cement Order of the tances) pplicable	e Industrial Safety an	d Health Law - Attached table 1 (Dangerous
	onous and Deleterio	us Substances Conti	rol Law
viron			s of Specific Chemical Substances in the Er the Management Thereof
•	Pressure Gas Safet	y Act	
-	psive Control Law		
	el Safety Law egulated as a danger	ous good	
	ion Law	ous good	
Marin	e Pollution and Sea	Disaster Prevention	etc Law
Bulk t	ransportation	: Not classified	as noxious liquid substance
Pack	transportation	: Not classified	as marine pollutant
Narco Not aj Speci	pplicable	aw Material (Export / I	mport Permission) Export / Import permission)
Waste	e Disposal and Pub trial waste	lic Cleansing Law	
<b>The c</b> AICS	omponents of this	product are reported : not determined	<b>in the following inventories:</b>
DSL		: not determined	d
IECS	0	: not determined	

### **16. OTHER INFORMATION**

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

#### **Further information**

JP OEL JSOH / OEL-M

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	es of key data used to le the Safety Data	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
	where changes have b nent by two vertical line		made to the previo	ous version are highlighted in the body of this
Date f	ormat	:	yyyy/mm/dd	
Full te	ext of other abbreviati	ons		
	H EL ISHL EL JSOH	:	Japan. Administra Japan. The Japa	eshold Limit Values (TLV) ative Control Levels n Society for Occupational Health. Recom- cupational Exposure Limits
	H / TWA EL ISHL / ACL	:	8-hour, time-weig Administrative Co	

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

Occupational Exposure Limit-Mean

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





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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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