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

Chemical product name	:	Sulfadiazine / Trimethoprim Solid Formulation
Supplier's company name, ad Company name of supplier		<b>ess and phone number</b> 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 p	product
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Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irri- tation	:	Category 2B
Respiratory sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Bone marrow)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

### **GHS** label elements



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Haza	rd pictograms	:	!
Signa	al word	: Danger	▼ ▼
Haza	rd statements	H334 May cau difficulties if in H335 May cau H361d Susper H373 May cau prolonged or r	Causes skin and eye irritation. use allergy or asthma symptoms or breathing haled. use respiratory irritation. cted of damaging the unborn child. use damage to organs (Bone marrow) through epeated exposure. ctic to aquatic life with long lasting effects.
Preca	autionary statements	· Prevention:	
		P202 Do not h and understoo P260 Do not b P264 Wash sh P271 Use only P273 Avoid re P280 Wear pr tion/ face prote	preathe dust. kin thoroughly after handling. y outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		Response:	
		P304 + P340 and keep com doctor if you fe P305 + P351 for several mir easy to do. Co P308 + P313 attention. P332 + P313 tion. P337 + P313 tention. P342 + P311 POISON CEN P362 + P364 reuse. P391 Collect s	<ul> <li>+ P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing.</li> <li>IF exposed or concerned: Get medical advice/</li> <li>If skin irritation occurs: Get medical advice/ atten-</li> <li>If eye irritation persists: Get medical advice/ at-</li> <li>If experiencing respiratory symptoms: Call a TER/ doctor.</li> <li>Take off contaminated clothing and wash it before</li> </ul>
		<b>Storage:</b> P405 Store lo	cked up.
		Disposal:	of contents/ container to an approved waste



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disposal plant.

### Other hazards which do not result in classification

Important symptoms and out- : May form expl lines of the emergency assumed

May form explosive dust-air mixture during processing, handling or other means.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
sulfadiazine	68-35-9	33.34	-
Trimethoprim	738-70-5	6.66	-

### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>	
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>	
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention.</li> </ul>	r
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> </ul>	
Most important symptoms and effects, both acute and delayed	<ul> <li>Causes skin and eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause respiratory irritation.</li> <li>Suspected of damaging the unborn child.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac</li> </ul>	



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Protection of first-aiders		:	<ul> <li>tive airways dysfunction syndrome).</li> <li>First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).</li> </ul>		
	Notes t	to physician	:		cally and supportively.
5. FI	REFIG	HTING MEASURES			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting	c hazards during fire- I	:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Metal oxides	
	Specifi 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
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.
6. A	CCIDE	NTAL RELEASE MEA	SUF	RES	
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	nmental precautions	:	Retain and dispos	he environment. akage or spillage if safe to do so. se of contaminated wash water.

Soak up with inert absorbent material.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces



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		es, as these m leased into the Clean up rema bent. Local or natior posal of this m employed in th mine which re Sections 13 ar	ed air). should not be allowed to accumulate on surfac- hay form an explosive mixture if they are re- e atmosphere in sufficient concentration. aining materials from spill with suitable absor- hal regulations may apply to releases and dis- haterial, as well as those materials and items he cleanup of releases. You will need to deter- gulations are applicable. hd 15 of this SDS provide information regarding r national requirements.
7. HANDL	ING AND STORAGE		
<b>Hanc</b> Tech	<b>lling</b> nical measures	causing an ex	ty may accumulate and ignite suspended dust blosion. late precautions, such as electrical grounding
Local	/Total ventilation		or inert atmospheres. ntilation is unavailable, use with local exhaust
Advic	e on safe handling	<ul> <li>Do not get on Do not breathe Do not swallow Do not get in e Wash skin tho Handle in acco practice, base sessment Keep containe Already sensit to asthma, alle should consult tory irritants or Minimize dust Keep containe Keep away fro Take precautic Do not eat, dri</li> </ul>	v. eyes. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure as- r tightly closed. ised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, their physician regarding working with respira-
	lance of contact ene measures	<ul> <li>Oxidizing ager</li> <li>If exposure to flushing syster place.</li> <li>When using do Wash contami</li> <li>The effective of engineering co</li> </ul>	nts chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, ogowning and decontamination procedures,



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			hygiene monitoring, medical surveillance and the ministrative controls.
Stor	age		
Conditions for safe storage		Store lock Keep tigh Keep in a	tly closed. cool, well-ventilated place.
Mate	rials to avoid	: Do not st	ccordance with the particular national regulations. bre with the following product types: idizing agents
Pack	aging material	: Unsuitabl	e material: 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 (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
sulfadiazine	68-35-9	TWA	2 mg/m3 (OEB 1)	Internal
Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB 2)	Internal

Engineering measures :	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipment	

### Personal protective equipment

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. Particulates type
Hand protection Material	:	Chemical-resistant gloves
Eye protection Skin and body 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. Work uniform or laboratory coat.
okin and body protection	•	work uniform of laboratory coal.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state



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Colo	ur	:	light yellow	
Odou	ır	:	No data available	9
Odou	ur Threshold	:	No data available	9
Melti	ng point/freezing point	:	No data available	9
	ng point, initial boiling and boiling range	:	No data available	9
Flam	mability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
Flam	mability (liquids)	:	No data available	9
U	er explosion limit and upp pper explosion limit / Up er flammability limit			
	ower explosion limit / ower flammability limit	:	No data available	9
Flash	n point	:	No data available	9
Deco	omposition temperature	:	No data available	9
pН		:	No data available	9
Evap	poration rate	:	Not applicable	
Auto	-ignition temperature	:	No data available	9
Visco V	osity iscosity, kinematic	:	Not applicable	
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n- nol/water	:	Not applicable	
Vapo	our pressure	:	Not applicable	
	sity and / or relative dens elative density	ity :	No data available	9
D	ensity	:	No data available	9
Rela	tive vapour density	:	Not applicable	



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Explo	sive properties	:	Not explosive			
Oxidiz	zing properties	:	The substance of	or mixture is not classified as oxidizing.		
	ele characteristics article size	:	No data availabl	e		
0. STABI	LITY AND REACTIVITY	,				
	tivity nical stability bility of hazardous reac-	:	Stable under nor May form explose dling or other me	vive dust-air mixture during processing, han-		
	itions to avoid	:	Heat, flames and Avoid dust forma	ation.		
	npatible materials rdous decomposition lcts	<ul><li>Oxidizing agents</li><li>No hazardous decomposition products are known.</li></ul>				
1. TOXIC	OLOGICAL INFORMAT	101	1			
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact			
	e toxicity lassified based on availa	ble	information.			
Produ Acute	uct: e oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 2,000 mg/kg ion method		
Com	oonents:					
sulfa	diazine:					
Acute	e oral toxicity	:	LD50 (Mouse): 1	,500 mg/kg		
Acute	e dermal toxicity	:	LD50 (Rat): > 5,0 Remarks: Based	00 mg/kg on data from similar materials		
	toxicity (other routes of	:	LD50 (Rat): 880			
	nistration)		Application Route	e: Intravenous		



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Trime	ethoprim:			
Acute	e oral toxicity	:	LD50 (Rat): 1,5	00 - 5,300 mg/kg
			LD50 (Mouse):	1,910 - 7,000 mg/kg
	e toxicity (other routes of nistration)	:		) - 500 mg/kg ite: Intraperitoneal
			LD50 (Dog): 90 Application Rou	
			LD50 (Mouse): Application Rou	
-	corrosion/irritation			
_	es skin irritation.			
Com	ponents:			
	diazine:			
Resu Rema		:	Skin irritation Based on data	from similar materials
	ous eye damage/eye irri	tati	on	
_	es eye irritation.			
Com	ponents:			
	diazine:		5	
Spec Resu		÷	Rabbit Irritation to ever	s, reversing within 7 days
Rema		:		from similar materials
Resp	piratory or skin sensitis	atic	on	
-	sensitisation lassified based on availa	hle	information	
	piratory sensitisation	DIC	information.	
•	cause allergy or asthma	svm	notoms or breathi	ng difficulties if inhaled
-	ponents:	5911		
	diazine:			
Test			Maximisation T	eet
Spec		:	Guinea pig	
Resu	lt	:	Not a skin sens	
Rema	arks	:	Based on data	from similar materials
Trime	ethoprim:			

Test Type

: Maximisation Test



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	sure routes	:	Dermal	
Speci Resul		:	Guinea pig Not a skin sens	itizer
		•		
Germ	cell mutagenicity			
Not cl	assified based on ava	ailable i	information.	
Comp	oonents:			
sulfa	diazine:			
Geno	toxicity in vitro	:	Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials
			Test system: Cl Result: negative	omosomal aberration ninese hamster ovary cells e d on data from similar materials
Trime	ethoprim:			
	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)
			Test Type: Chro Result: negative	omosomal aberration e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
			Test Type: DNA thesis in mamm Result: negative	A damage and repair, unscheduled DNA sy alian cells (in vitro) e
Geno	toxicity in vivo	:	Test Type: Micr Species: Rat Result: negative	
			Test Type: Chro Species: Huma Result: negative	
II Carci	nogenicity			
	lassified based on ava	ailable i	nformation.	
-	oductive toxicity ected of damaging the	e unbor	n child.	
	oonents:			
-	diazine:			
Sund				elopment



rsion 0	Revision Date: 2024/09/28	SDS Number: 1737632-00021	Date of last issue: 2024/04/06 Date of first issue: 2017/06/08			
ment		Result: Embryo				
Trime	thoprim:					
Effects	s on fertility	: Test Type: Fert Species: Rat Application Rou Fertility: NOAEI Result: No effec	ıte: Oral _: 70 mg/kg body weight			
Effects on foetal develop- ment		<ul> <li>Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 70 mg/kg body weig Result: Effects on newborn Remarks: Maternal toxicity observed.</li> </ul>				
		Result: Embryo	ite: Oral Toxicity: LOAEL: 70 mg/kg body weight			
		Test Type: Dev Species: Rat Application Rou Developmental Result: Embryo				
			ter			
			t			
Repro sessm	ductive toxicity - As- ient	: Suspected of da	amaging the unborn child.			

May cause respiratory irritation.



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<u>Comp</u>	onents:		
sulfac	liazine:		
Asses		: May cause resp	iratory irritation.
	- repeated exposur		
May c	ause damage to orga	ans (Bone marrow) thro	ugh prolonged or repeated exposure.
<u>Comp</u>	onents:		
Trime	thoprim:		
	t Organs sment	<ul> <li>Bone marrow</li> <li>Causes damage exposure.</li> </ul>	e to organs through prolonged or repeated
Repea	ated dose toxicity		
<u>Comp</u>	onents:		
Trime	thoprim:		
Specie	-	: Rat	
NOAE	E	: 100 mg/kg	
LOAE	—	: 300 mg/kg : Oral	
	ation Route sure time	: 6 Months	
	t Organs		iver, Pituitary gland, Thyroid
Specie	es	: Rat	
LOAE		: 300 mg/kg	
	ation Route	: Oral	
	sure time	: 3 Months	
Targe	t Organs	: Bone marrow	
Specie		: Dog	
NOAE	-	: 2.5 mg/kg	
LOAE	L ation Route	: 45 mg/kg : Oral	
	sure time	: 3 Months	
	t Organs	: Blood, Thyroid	
Acnir	ation toxicity		
-	assified based on av	ailable information	
	ience with human e		
-	onents:		
sulfac	liazine:		
	al Information	: May cause eye,	skin, and respiratory tract irritation.
00.00			



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Inge	estion	:		one marrow minal pain, Nausea, Vomiting, skin rash, che, mental depression, confusion
12. ECO	LOGICAL INFORMATION	N		
Eco	otoxicity			
<u>Cor</u>	nponents:			
sul	fadiazine:			
Тох	icity to fish	:	LC50 (Pimephale Exposure time: 96 Method: OECD To	
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Tox plar	icity to algae/aquatic hts	:	EC50 (Anabaena Exposure time: 72 Method: OECD Te	
			NOEC (Anabaena Exposure time: 72 Method: OECD Te	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
				rchneriella subcapitata (green algae)): 0.13 2 h
			EC50 (Microcystis Exposure time: 7 Method: ISO 8692	
	Factor (Acute aquatic tox-	:	1	
aqu	() icity to daphnia and other latic invertebrates (Chron- pxicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	Factor (Chronic aquatic city)	:	1	
	icity to microorganisms	:	EC50: > 1,000 mg Exposure time: 3	



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			Test Type: Respir Method: OECD T NOEC: 1,000 mg, Exposure time: 3 Test Type: Respir Method: OECD T	est Guideline 209 1 h ation inhibition
	<b>hoprim:</b> y to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 100 mg/l S h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna Straus): 92 mg/l 3 h
Toxicit <u>y</u> plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (microalgae)): 80.3 2 h
			NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 16 2 h
			EC50 (Anabaena Exposure time: 72	flos-aquae): 253 mg/l 2 h
			EC10 (Anabaena Exposure time: 72	flos-aquae): 26 mg/l 2 h
Toxicity)	y to fish (Chronic tox-	:	NOEC (Zebrafish Exposure time: 27	
	y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 2 <sup>2</sup>	nagna (Water flea)): 6 mg/l I d
	y to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	ation inhibition
			EC50: > 1,000 mg Exposure time: 3 Test Type: Respin Method: OECD T	hrs ration inhibition
Persis	tence and degradabil	ity		
Compo	onents:			
sulfadi Biodeg	<b>iazine:</b> Iradability	:	Result: Not readil	y biodegradable.



Versior 12.0	n Revision Date: 2024/09/28		OS Number: 37632-00021	Date of last issue: 2024/04/06 Date of first issue: 2017/06/08
			Biodegradation: Exposure time: 2 Method: OECD T	
Tr	imethoprim:			
	odegradability	:	Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	4 %
			Biodegradation: Exposure time: 2	ently biodegradable. 0 % 8 d rest Guideline 302B
Bi	oaccumulative potential			
<u>Cc</u>	omponents:			
su	Ilfadiazine:			
Pa	artition coefficient: n- tanol/water	:	log Pow: 0.12	
Pa	<b>imethoprim:</b> artition coefficient: n- tanol/water	:	log Pow: 0.91	
	<b>obility in soil</b> o data available			
	azardous to the ozone lay ot applicable	er		
	h <b>er adverse effects</b> o data available			
13. DIS	POSAL CONSIDERATION	١S		
יח	sposal methods			
	aste from residues	÷	Dispose of in acc	ordance with local regulations.
		•	Do not dispose of	f waste into sewer.
Co	ontaminated packaging	:	dling site for recy	s should be taken to an approved waste han- cling or disposal. pecified: Dispose of as unused product.
14. TR	ANSPORT INFORMATION	I		
Int	ternational Regulations			
	<b>NRTDG</b> N number	:	UN 3077	



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Proper shipping name		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sulfadiazine)				
Class		:	9				
Packir	ng group	:	u III				
Labels		:	9				
Enviro	onmentally hazardous	:	yes				
ΙΑΤΑ-	DGR						
UN/ID	No.	:	UN 3077				
Prope	r shipping name	:	Environmentally hazardous substance, solid, n.o.s.				
			(sulfadiazine)				
Class		:	9				
	ng group	:	III				
Labels		:	Miscellaneous				
Packing instruction (cargo aircraft)		:	956				
Packing instruction (passen- ger aircraft)		:	956				
	Environmentally hazardous		yes				
IMDG	-Code						
UN number		:	UN 3077				
Proper shipping name		÷		ALLY HAZARDOUS SUBSTANCE, SOLID,			
			N.O.S.	·····, ·····, ·····, ····, ····,			
			(sulfadiazine)				
Class		:	9				
Packing group		:	111				
Labels		:	9				
EmS	Code	:	F-A, S-F				
Marine	e 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

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

: 171

### **15. REGULATORY INFORMATION**

### **Related Regulations**

### Fire Service Law

Not applicable to dangerous materials / designated flammables.



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#### 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

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
5-[(3,4,5-	>=1 - <10	-
5-[(3,4,5- trimethoxyphenyl)methyl]pyrimidine-2,4- diamine		

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18) Chemical name

 Chemical name
 Remarks

 5-[(3,4,5-trimethoxyphenyl)methyl]pyrimidine-2,4-diamine

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

### Ordinance on Prevention of Organic Solvent Poisoning Not applicable



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# Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

**Poisonous and Deleterious Substances Control Law** Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

High Pressure Gas Safety Act

Not applicable

**Explosive Control Law** 

Not applicable

#### Vessel Safety Law

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

#### **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

#### Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Not classified as noxious liquid substance
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Pack transportation : Classified as marine pollutant

#### Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

#### Waste Disposal and Public Cleansing Law

Industrial waste

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

AICS	:	not determined
DSL	:	not determined
IECSC	:	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

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD



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compile the Safety Data Sheet 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 abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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